THE UNIVERSITY OF SYDNEY

How to plan your Science degree

Science sample degree plans 2024

COLOUR CODING FOR UNITS OF STUDY

GLOSSARY

Advanced Coursework
Elective
Major
Minor
Open Learning Unit (OLE)
Program
Stream A version of a course that is linked to a common or parent course but is treated as a separate course for admission purposes. For example, Bachelor of Arts (International and Global Studies).

BACHELOR OF SCIENCE - STREAM DEGREE SAMPLE PLANS

Bachelor of Science/Bachelor of Advanced Studies (Animal and Veterinary Bioscience)
Bachelor of Science/Bachelor of Advanced Studies (Taronga Wildlife Conservation)
Bachelor of Science/Bachelor of Advanced Studies (Health) - 2nd Major: Human Movement; Also available as Bachelor of Science (Health)
Bachelor of Science/Bachelor of Advanced Studies (Medical Science); Also available as Bachelor of Science (Medical Science)

BACHELOR OF SCIENCE - DOUBLE DEGREE SAMPLE PLANS

Bachelor of Science/Doctor of Dental Medicine
Bachelor of Science/Doctor of Medicine
Bachelor of Science (Medical Science)/Doctor of Medicine
Bachelor of Science/Master of Mathematical Sciences; Mathematical Sciences Program, Data Science
Bachelor of Science/Master of Mathematical Sciences; Mathematical Sciences Program, Financial Mathematics and Statistics
Bachelor of Science/Master of Mathematical Sciences; Mathematical Sciences Program, Mathematics
Bachelor of Science/Master of Mathematical Sciences; Mathematical Sciences Program, Statistics
Bachelor of Science/Master of Nutrition and Dietetics
Bachelor of Veterinary Biology/Doctor of Veterinary Medicine
Bachelor of Science and Bachelor of Laws

SCIENCE - SINGLE DEGREE SAMPLE PLANS

Bachelor of Agricultural Science – New in 2024
Bachelor of Agricultural Science (Honours) – New in 2024
Bachelor of Liberal Arts and Science
Bachelor of Liberal Arts and Science (Extended)
Bachelor of Psychology
Bachelor of Science (Extended)

BACHELOR OF SCIENCE – PROGRAM AND MAJOR DEGREE SAMPLE PLANS

Bachelor of Science; Anatomy and Histology major
Bachelor of Science; Animal Health, Disease and Welfare major
Bachelor of Science; Animal Production major
Bachelor of Science; Applied Medical Science major
Bachelor of Science; Astrophysics Program
Bachelor of Science; Biochemistry and Molecular Biology Major
Bachelor of Science; Biology Major
Plant Science minor
Bachelor of Science; Chemistry major
Bachelor of Science; Computer Science major
Bachelor of Science; Data Science major
Bachelor of Science; Ecology and Evolutionary Biology major
Wildlife Conservation minor
Bachelor of Science; Environmental Science program

Bachelor of Science; Environmental Studies major
Bachelor of Science; Financial Mathematics and Statistics major
Bachelor of Science; Food Science major
Bachelor of Science; Genetics and Genomics major
Bachelor of Science; Geography major
Bachelor of Science; Geology and Geophysics major
Bachelor of Science; Health Major (Table S – non-Health Stream)
Bachelor of Science; History and Philosophy of Science major
Bachelor of Science; Immunology and Pathology major
Immunology minor
Pathology minor
Bachelor of Science; Infectious Diseases major
Virology minor
Bachelor of Science; Life Sciences Program, Biochemistry and Molecular Biology
Bachelor of Science; Life Sciences Program, Genetics and Genomics
Bachelor of Science; Life Sciences Program, Microbiology
Bachelor of Science; Marine Science major
Bachelor of Science; Mathematical Sciences Program, Data Science
Bachelor of Science; Mathematical Sciences Program, Financial Mathematics and Statistics
Bachelor of Science; Mathematical Sciences Program, Mathematics
Bachelor of Science; Mathematical Sciences Program, Statistics
Bachelor of Science; Mathematics major
Bachelor of Science; Medicinal Chemistry major
Bachelor of Science; Microbiology major
Bachelor of Science; Neuroscience major
Bachelor of Science; Nutrition Science major
Bachelor of Science; Pharmacology major
Bachelor of Science; Physics major
Bachelor of Science; Physiology major
Bachelor of Science; Plant Production major
Bachelor of Science; Plant Science major
Bachelor of Science; Psychology program
Bachelor of Science; Psychological Science major
Bachelor of Science; Software Development major
Bachelor of Science; Soil Science and Hydrology major
Bachelor of Science; Statistics major

CONTACT DETAILS

Colour coding for units of study

Major 1	Major 2	Minor	Degree core
Open Learning Environment(OLE)	Program	Stream	Advanced coursework
Elective	Cognate major		

Note that each unit of study block in the following sample study tables have a value of 6 Credit Points (cps) unless otherwise indicated.

Glossary

Advanced Coursework - compromises 4000-level units which are available to students enrolled in a combined Bachelor of Advanced Studies degree.

Elective- Units of study selected by you, according to your need or interests. You can choose from lists of electives in your handbook.

Major - A defined sequence of units of study that develops your depth of expertise in a field of study. In undergraduate degrees, a major is exactly 48 credit points. Majors are recorded on your academic transcript.

Minor - A defined sequence of units of study that develops your expertise in a field of study. In undergraduate degrees, a minor is exactly 36 credit points. Minors are recorded on your academic transcript.

Open Learning Unit (OLE) - a collection of units of study that let you extend your knowledge by exploring other fields of study. Depending on your degree, you may be required to take credit point OLE units.

Program - A combination of units of study that develops expertise across several disciplines or a professional or specialist field. It includes at least one recognised major in a field of study. Programs are larger volumes of study – in a specified area – than a 48 credit point major. They are also designed to ensure that industry or employment needs are met and are recorded on your student transcript.

Stream A version of a course that is linked to a common or parent course but is treated as a separate course for admission purposes. For example, Bachelor of Arts (International and Global Studies).

Bachelor of Science - STREAM DEGREE

Sample Plans

Bachelor of Science/Bachelor of Advanced Studies – available with an additional year Bachelor of Science/Bachelor of Advanced Studies (ADVANCED) – available with completion of advanced coded units.

Bachelor of Science/Bachelor of Advanced Studies (Animal and Veterinary Bioscience)

Year	Semester	Units of study				
1	1	Chemistry 1A	Animals and Us	Introduction to Statistical Methods	Major	
	2	From Molecules to Ecosystems	Animal Management	Elective	Major	
2	1	Animal Structure and Function	Animal Energetics and Homeostasis	Applied Statistical Methods	Major	Farm Placement
	2	Animal Nutrition	Australian Wildlife Biology OR Animal Farming Systems ^ OR Genetics and Genomics	OLE	Major	Industry OR Business Placement
3	1	Animal Reproduction	Science Interdisciplinary Project OR Production Systems Analysis (S2)	Elective	Major	Research Experience Placement
	2	Animal Technologies	Animal Behaviour and Welfare Science	Elective	Major	Elective Placement
4	1	Advanced coursework*	Advanced coursework*	Professional Development	Major	
	2	Applied Life Sciences Project		Advanced coursework*	Major	

^ This unit runs in Semester 1

* Selective advanced coursework and project Sem 1: Applied Livestock Systems; Data and Technology for the Life Sciences; Science Communication; Experimental Design and Data Analysis; Ethics in Science Sem 2: Diary Production and Technology; ONE Health; Ethics in Science

Bachelor of Science/Bachelor of Advanced Studies (Taronga Wildlife Conservation)

Year	Semester	Units of study			
1	1	Life and Evolution	Animals and Us	Introduction to Statistical Methods	Major
	2	From Molecules to Ecosystems	OLE	Elective	Major
2	1	Applied Statistical Methods	Elective	Elective	Major
	2	Biology Experimental Design and Analysis	Ecology and Conversation	Australian Wildlife Biology	Major
3	1	Taronga Project	Wildlife Conservation	Elective	Major
	2	Taronga Interdisciplinary Project	Ecology	Elective	Major
4	1	Wildlife Management (WPZ*)	Taronga Conservation Project: Applied Biology		Major
	2	Wildlife Health and Welfare^	Taronga Conservation Project: Human Dimensions		Major

*This unit takes place at Western Plains Zoo, Dubbo in Intensive February

^Offered in Intensive July

Bachelor of Science/Bachelor of Advanced Studies (Health) - 2nd Major: Human Movement; Also available as Bachelor of Science (Health)

Year	Semester	Units of study			
1	1	Introduction to Health and Health Care	Human Biology OR Life and Evolution OR From Molecules to Ecosystems^	Recommended core: Foundations of Data Science	Essential Musculoskeletal Human Anatomy
	2	Society and Health	Psychology 1002	Recommended core: Sydney Science 2050: Towards the Future	Advanced Musculoskeletal Human Anatomy
2	1	Introduction to research methods in health	OLE	Elective	Body Systems and Human Performance
	2	Innovations in eHealth	Elective	Muscle Adaptations to Use and Disuse	Human Neuroscience in Health and Disease
3	1	Research unit *	Disciplinary project unit***	Motor Control and Learning	Exercise Responses and Programming
	2	Interdisciplinary experience unit **	Selective unit ****	Elective	Anatomical Analysis of Exercise OR Industry and Community Project
4	1	Project	Project	Advanced coursework	Advanced coursework
	2	Project	Project	Advanced coursework	Advanced coursework

^Offered in Semester 2

* Research units: Sem1: Quantitative Research Methods in Health; Sem 2: Evidence Based Health Care; Qualitative Research Methods in Health

** Interdisciplinary experience units: Sem 1: Health Ethics and the Law; Sem 2: International Health; Sydney Health Students Abroad; Industry and Community Project

*** Disciplinary Project units: Sem 1: Rural Health; Health Promotion: Principles and Practice; Sem 2: Health Service Strategy and Policy;

**** Selective units: Sem 1: Quantitative Research Methods in Health; Health, Ethics, and the Law; Rural Health; Mental Health Rehabilitation; Health Promotion: Principles and Practice Sem 2: Evidence Based Health Care; Health and Indigenous Populations; Health Service Strategy and Policy; International Health; Sydney Health Students Abroad; *Individual and Societal Ageing (There are no availabilities for this year).*

Bachelor of Science/Bachelor of Advanced Studies (Medical Science); Also available as Bachelor of Science (Medical Science)

Year	Semester	Units of study			
1	1	Human Biology	Chemistry 1A	Recommended core: Foundations of Data Science	Major
	2	From Molecules to Ecosystems	Essentials of Human Anatomy	Recommended core: Sydney Science 2050: Towards the Future	Major
2	1	The Human Lifespan*	Biochemistry and Molecular Biology	OLE	Major
	2	Humans and our Environment*	Frontiers of Human Health*	Elective	Major
3	1	Contemporary Medical Challenges	Breakthroughs in Medical Science*	Elective	Major
	2	Medical Science Interdisciplinary Project	Horizons in Medical Sciences*	Elective	Major
4	1	Advanced coursework	Advanced coursework	Advanced coursework	Major
	2	Project	Project	Advanced coursework	Major

*This unit of study is being developed please check handbook for the latest details and timetable information

Bachelor of Science - DOUBLE DEGREE Sample Plans

Bachelor of Science/Doctor of Dental Medicine

(Refer to Bachelor of Science programs and majors for detailed study tables)

Year	Semester	Units of study			
1	1	Science Major	Science	OLE	Minor
	2	Science Major	Biology^	Maths	Minor
2	1	Science Major	Maths	Elective	Minor
	2	Science Major	Elective	Elective	Minor
3#	1	Science Major	Science Major	Elective	Minor
	2	Science Major	Science Major	Elective	Minor
4-7	1	Doctor of Dental Medicine			
	2				

^ Biology unit: Sem 1: Life and Evolution; Human Biology Sem2: From Molecules to Ecosystems.

All students must undertake a zero-credit point 5-day Observational Elective Placement during their undergraduate degree (Dentistry Elective)

Bachelor of Science/Doctor of Medicine

(Refer to B Science programs and majors)

Year	Semester	Units of study			
1	1	Science Major	Science	OLE	Minor
	2	Science Major	From Molecules to Ecosystems	Maths	Minor
2	1	Science Major	Maths	Key Concepts in Physiology	Minor
	2	Science Major	Elective	Anatomy and Histology of Core Body Functions OR Human Anatomy and Histology	Minor
3#	1	Science Major	Science Major	Elective	Minor
	2	Science Major	Science Major	Elective	Minor
4-7	1	Doctor of Medicine			
	2				

All students must undertake a zero-credit point 5-day Observational Elective Placement during their undergraduate degree (Observational Elective)

Bachelor of Science (Medical Science)/Doctor of Medicine

Year	Semester	Units of study			
1	1	Human Biology	Chemistry 1A	Recommended core: Foundations of Data Science	Minor
	2	From Molecules to Ecosystems	Essentials of Human Anatomy	Recommended core: Sydney Science 2050: Towards the Future	Minor
2	1	Human Lifespan *	Biochemistry and Molecular Biology	OLE	Minor
	2	Humans and our Environment*	Frontiers of Human Health	Elective	Minor
3#	1	Contemporary Medical Challenges	Breakthroughs in Medical Science*	Elective	Minor
	2	Medical Science Interdisciplinary Project	Horizons in Medical Sciences*	Elective	Minor
4-7	1	Doctor of Medicine			
	2				

All students must undertake a zero-credit point 5-day Observational Elective Placement during their undergraduate degree (Observational Elective)

*This unit of study is being developed please check the handbook for the latest details and timetable information

Bachelor of Science/Master of Mathematical Sciences; Mathematical Sciences Program, Data Science

Year	Semester	Units of study			
1	1	Foundations of Data Science	Calculus of one variable and Multivariable Calculus and Modelling	OLE	Minor
	2	Informatics: Data and Computation	Elective/ Dalyell	Science	Minor
2	1	Data Science: Big Data and Data Diversity	Program selective#	Elective	Minor
	2	Data Analytics: Learning from Data	Data Selective^	Elective	Minor
3	1	Data Science Capstone	Program selective*	Elective/ Dalyell	Minor
	2	Data Methodology#, Data Application** OR interdisciplinary project selective unit***	Data Methodology^^ unit	Elective	Minor
4^^	1	Coursework	Coursework	Coursework	Coursework
	2	Coursework	Coursework	Coursework	Coursework
5	1	Research Project			

Program selective units (all advanced): Vector Calculus and Differential Equations OR Linear and Abstract Algebra OR Probability and Statistical Models

^ Data selective units: Sem 1: Data Structures and Algorithms; Computational Modelling; Probability and Estimation Theory; Probability and Statistical Models (Adv) Sem 2: Genetics and Genomics; Molecular Systems Biology (no availabilities for 2024).

Data methodology: Sem 1: Algorithm Design; Introduction to Artificial Intelligence; Scalable Data Management; Stochastic Processes; Applied Linear Models; Time Series (Advanced); Statistical Consulting (Advanced) Sem 2: Human-in-the-Loop Data Analytics; Statistical Inference.

**Application unit: Sem 1: Statistics in the Natural Sciences; Interrogating Biomedical and Health Data; Sem 2: Environmental GIS; Applied Genomics; Beyond the Genome

***Selective Interdisciplinary Project: Science Interdisciplinary Project OR Statistical Machine Learning (Sem 2 only).

* Program selective units: Sem 1: Metric Spaces; Rings, Fields and Galois Theory (Adv); Nonlinear ODEs with Applications; Fluid Dynamics (Advanced); Mathematical Computing; Complex analysis; Stochastic Processes; Applied Linear Models; Time Series; Statistical Consulting Sem 2: Projects in Financial Mathematics; Projects in Mathematics; Measure Theory and Fourier Analysis (Adv); Differential Geometry (Advanced); Financial Derivatives; Langrangian and Hamiltonian Dynamics (Adv); PDEs and Waves; Statistical Inferences; Statistical Machine learning;

Bachelor of Science/Master of Mathematical Sciences; Mathematical Sciences Program, Financial Mathematics and Statistics

Year	Semester	Units of study			
1	1	Mathematics 1A	Elective/ Dalyell	OLE	Minor
	2	Mathematics 1B	Informatics: Data and Computation	Science	Minor
2	1	Probability and Estimation Theory	Program selective#	Elective	Minor
	2	Optimisation and Financial Mathematics	Data Analytics: Learning from Data	Elective	Minor
3	1	Stochastic Processes	Program selective*	Elective	Minor
	2	Financial Derivatives	Projects in Financial Mathematics OR Interdisciplinary project	Elective/ Dalyell	Minor
4^^	1	Coursework	Coursework	Coursework	Coursework
	2	Coursework	Coursework	Coursework	Coursework
5	1	Research Project			

Program selectives (all advanced): Vector Calculus and Differential Equations; Linear and Abstract Algebra

* Program selective units: Sem 1: Data Science Capstone: Metric Spaces (Advanced); Rings, Fields and Galois Theory (Adv); Nonlinear ODEs with Applications (Adv); Fluid Dynamics (Advanced); Mathematical Computing (Advanced); Complex analysis (Advanced); Applied Linear Models (Advanced); Time Series (Advanced); Statistical Consulting (Advanced) Sem 2: Projects in Financial Mathematics; Projects in Mathematics; Differential Geometry (Advanced); Measure Theory and Fourier Analysis (Adv); Langrangian and Hamiltonian Dynamics (Adv); PDEs and Waves (Advanced); Statistical Inference (Advanced); Statistical Machine learning.

Bachelor of Science/Master of Mathematical Sciences; Mathematical Sciences Program, Mathematics

Year	Semester	Units of study			
1	1	Mathematics 1A	Elective/ Dalyell	OLE	Minor
	2	Mathematics 1B	Informatics: Data and Computation	Science	Minor
2	1	Vector Calculus and Differential Equations	Linear and Abstract Algebra	Data Analytics: Learning from Data (Adv)(Sem 2)~ OR Probability and Statistical Models (Adv)	Minor
	2	Analysis OR Number Theory and Cryptography	Elective	Elective	Minor
3	1	Selective#	Projects in Mathematics (S2) OR Science Interdisciplinary Project	Elective/ Dalyell	Minor
	2	Selective#	Program selective^	Elective	Minor
4^^	1	Coursework	Coursework	Coursework	Coursework
	2	Coursework	Coursework	Coursework	Coursework
5	1	Research Project			

Selective units: Sem 1: Metric Spaces (Advanced); Rings, Fields and Galois Theory (Adv); Nonlinear ODEs with Applications; Algebra and Logic; Mathematical Computing; Fluid Dynamics (Advanced); Complex Analysis Sem 2: Geometry and Topology; PDEs and Waves; Differential Geometry (Advanced); Measure and Theory of Fourier Analysis; Langrangian and Hamiltonian Dynamics (Adv);
^ Program selective: Sem 1: Data Science capstone; ; Metric Spaces (Advanced); Rings, Fields and Galois Theory (Adv); Nonlinear ODEs with Applications (Adv); Fluid Dynamics (Advanced); Mathematical Computing (Advanced); Mathematical Computing (Advanced); Complex analysis (Advanced); Stochastic Processes; Applied Linear Models (Advanced); Time Series (Advanced); Statistical Consulting (Advanced) Sem 2: Projects in Financial Mathematics; Projects in Mathematics; Differential Geometry (Advanced); Measure Theory and Fourier Analysis (Adv); Langrangian and Hamiltonian Dynamics (Adv); PDEs and Waves (Advanced); Statistical Inferences (Advanced); Statistical Machine learning.

Bachelor of Science/Master of Mathematical Sciences; Mathematical Sciences Program, Statistics

Year	Semester	Units of study			
1	1	Mathematics 1A	Elective/ Dalyell	OLE	Minor
	2	Mathematics 1B	Informatics: Data and Computation	Science	Minor
2	1	Probability and Estimation Theory	Vector Calculus and Differential Eqs OR Linear and Abstract Algebra	Elective	Minor
	2	Data Analytics: Learning from Data	Program selective#	Elective	Minor
3	1	Applied Linear Models	Stochastic Process OR Time Series OR Statistical Consulting	Elective	Minor
	2	Statistical Inference	Statistical Machine Learning OR Science Interdisciplinary Project	Elective/ Dalyell	Minor
4^^	1	Coursework	Coursework	Coursework	Coursework
	2	Coursework	Coursework	Coursework	Coursework
5	1	Research Project			

Program selectives (all advanced): Semester 1: Vector Calculus and Differential Eqs; Linear Abstract Algebra; Semester 2: Analysis; Number Theory and Cryptography; Optimisation and Financial Mathematics

Bachelor of Science/Master of Nutrition and Dietetics

Year	Semester	Units of study			
1	1	Chemistry 1A	Human Biology	Recommended core: Mathematics 1A	Minor
	2	From Molecules to Ecosystems	Chemistry 1B	Recommended core: Foundations of Data Science	Minor
2	1	Biochemistry and Molecular Biology	Key Concepts in Physiology	OLE	Minor
	2	Proteins in Cells	Applied Physiology	Elective	Minor
3	1	Introductory Nutrition and Metabolism	Food Processing and Value Adding	Elective	Minor
	2	Metabolic Cybernetics	Selective^	Elective	Minor
4	1	Dietary Intake and Nutrition Assessment	Nutritional and Food Science	Foundations of Health Research	Dietetics Professional Studies
	2	Food Service Management	Community and Public Health Nutrition	Medical Nutrition (12 cps)	
5	1	Dietetics Training Placement			
	2	Nutrition Research Project			

^ Selective: Sem 1: Gene and Genome Regulation; Protein Function and Engineering; Science Interdisciplinary Project. Semester 2: Biochemistry of Human Disease; Science Interdisciplinary Project

Bachelor of Veterinary Biology/Doctor of Veterinary Medicine

Bachelor of Veterinary Biology

Year	Semester	Units of study			
1	1	Life and Evolution	Chemistry 1A	Introduction to Statistical Methods	Elective
	2	From Molecules to Ecosystems	Chemistry 1B	Animal Management	Elective
2	1	Animal Structure and Function	Animal Energetics and Homeostasis	Elective	Elective
	2	Introductory Veterinary Pathogenesis	Animal Nutrition	Genetics and Genomics	Elective

Candidates who successfully complete the progression requirements enrol in the units of study for the Doctor of Veterinary Medicine degree.

Doctor of Veterinary Medicine

Year	Semester	Units of study						
3~	1	The Veterinary Professional 1 (3cps)	Professional Skills 1A (6cps)	Research and Enquiry 1A (3cps)	Foundations of Veterinary Science A (12cps)			
	2	Animal Management Systems 1 (3cps)	Professional Skills 1B (6cps)	Research and Enquiry 1B (3cps)	Foundations of Veterinary Science B (12cps)			
4^	1	The Veterinary Professional 2 (3cps)	Professional Skills 2A (6cps)	Research and Enquiry 2A (3cps)	Principals of Animal Disease A (12cps)			
	2	Animal Management Systems 2 (3cps)	Professional Skills 2B (6cps)	Research and Enquiry 2B (3cps)	Principals of Animal Disease B (12cps)			
5^^	1	Veterinary Public Practice (3cps)	Clinical Foundations (3cps)	Small Animal Practice A (6cps)	Livestock Practice A (3cps)	Equine Practice A (3cps)	Avian, Reptilian and Wildlife Practice (3cps)	Research and Enquiry 3A (3cps)
	2	Veterinary Practice Management (3cps)	Small Animal Practice B (6cps)	Livestock Practice B (6cps)	Equine Practice B (3cps)	Intensive Animal Practice (3cps)	Research and Enquiry 3B (3cps)	
6	1	Small Animal Clinics A (6cps)	Small Animal Clinics B (6cps)	Extramural Placement 1 (3cps)	Extramural Placement 2 (3cps)	Lab Investigations of Clinical Disease (3cps)	Public, Industry, or Community Placement (3cps)	
	2	Small Animal Clinics C (6cps)	Small Animal Clinics D (3cps)	Large Animal Clinics A (6cps)	Large Animal Clinics B (3cps)	Extramural Placement 3 (3cps)	Extramural Placement 4 (3cps)	

~ Placement units (These placements occur at farms and commence at the end of Year 1 and should be completed by Semester 2 intra-semester Year 2): Horse Industry Placement; Dairy Cattle Industry Placement; Beef Cattle Industry Placement; Sheep Industry Placement; Intensive Animal Industry Placement; Industry Placement Elective Experience 1, 2 and 3

^ Placement units (These placements occur outside of the main semesters at the end of Year 2/beginning of Year 3): Preparatory Clinical Placement 1; Preparatory Clinical Placement 2

^^ Placement units: Abattoir Placement (This placement occurs in Year 3 from the Semester 1 intra-semester break); Small Animal Desexing Clinic

Bachelor of Science and Bachelor of Laws

Year	Semester	Units of study			
1*	1	Major	Elective	Degree Core/Maths	Foundations of Law
	2	Major	OLE	Degree Core/Maths	Torts
2	1	Major	Elective	Contracts	Civil and Criminal Procedure
	2	Major	Major	Elective	Criminal Law
3	1	Major	Major		Public International Law
	2	Major	Major	Torts and Contracts II	Public Law
4	1	Administrative Law	Federal Constitutional Law	Intro to Property and Commercial Law	The Legal Profession
	2	Corporations Law	Equity	Evidence	Real Property
5	1	Private International Law A	Law Elective Part 1 or 2**	Law Elective Part 1 or 2**	Law Elective Part 1 or 2**
	2	Law Elective Part 1 or 2**	Law Elective Part 1 or 2**	Law Elective Part 1 or 2**	Law Elective Part 1 or 2**

*Compulsory Legal Research unit (0cps)

**Note that you may study a maximum of 36 credit points from Part 1 – Electives AND a minimum of 6 credit points from Part 2 – Jurisprudence Please see the following pages on the Sydney Law School Undergraduate handbook;

https://www.sydney.edu.au/handbooks/law/undergraduate/electives_p1_table.html

https://www.sydney.edu.au/handbooks/law/undergraduate/electives_p2_jurisprudence_table.html

Science - SINGLE DEGREE Sample plans

Bachelor of Agricultural Science – New in 2024

Year	Semester	Units of study			
1	1	Introduction to Statistical Methods (ENVX1002)	Econ & business of agriculture (AGRI1001)*	Life and Evolution (BIOL1XX6)	Cognate major
	2	Animal Management (AVBS1002)	Global Challenges: Food, Water, Climate (ENVI1003)	From Molecules to Ecosystems (BIOL1XX7)	Cognate major
2	1	Applied Statistical Methods (ENVX2001)	Soil & Water: Earth's Life Support Systems (SOIL2005)	Plant Management in Agroecosystems (AGRI2001)	Cognate major
	2	Ag & Environmental markets (AGRI2002)**	Plants and Environment (BIOL2031)	Genetics and Genomics (GEGE2X01)	Cognate major
3	1	Production Horticulture (HORT3005)	Plant Protection (BIOL3019)	Cognate major	Cognate major
	2	Sustainable Plant Production (AGRI3888)	Elective	Cognate major	Cognate major

* New unit in 2024

** New unit in 2025

Bachelor of Agricultural Science (Honours) – New in 2024

Year	Semester	Units of study			
1	1	Introduction to Statistical Methods (ENVX1002)	Econ & business in agriculture (AGRI1001) *	Life and Evolution (BIOL1XX6)	Cognate major
	2	Animal Management (AVBS1002)	Global Challenges: Food, Water, Climate (ENVI1003)	From Molecules to Ecosystems (BIOL1XX7)	Cognate major
2	1	Applied Statistical Methods (ENVX2001)	Soil & Water Earth's Life Support Systems (SOIL2005)	Plant Management in Agroecosystems (AGRI2001)	Cognate major
	2	Ag & Environmental markets (AGRI2002) **	Plants and Environment (BIOL2031)	Genetics and Genomics (GEGE2X01)	Cognate major
3	1	Production Horticulture (HORT3005)	Plant Protection (BIOL3019)	Cognate major	Cognate major
	2	Sustainable Plant Production (AGRI3888)	Elective	Cognate major	Cognate major
4	1	Agriculture and Food Honours Project (AFAB4103/4)		Resilient Ag Systems (AGRI4002) #	Selective based on Project
	2	Agriculture and Food Honours Project (AFAB4105/6)		Professional Development (AFNR4001)	Emerging Ag Systems (AGRI4003) #

** New unit in 2024

** New unit in 2025

New units in 2027

Bachelor of Liberal Arts and Science

(Refer to B Science and B Arts for the list of majors available)

Year	Semester	Units of study			
1	1	Science Table A Major	Elective	LS: Analytical Thinking	Sequence
	2	Science Table A Major	Elective	LS: Writing and Rhetoric: Academic Essays	Sequence
2	1	Science Table A Major	Table S Elective	BLAS elective#	Sequence
	2	Science Table A Major	BLAS elective#	LS Ethics^	Sequence
3	1	Science Table A Major	Science Table A Major	BLAS elective#	Sequence
	2	Science Table A Major	Science Table A Major	BLAS elective#	Sequence

^ Ethics units offered at all levels. Units include: Sem 1: Bioethics; Reality, Ethics and Beauty; Practical Ethics; Moral Psychology Sem 2: Science, Ethics and Society.

Elective unit disciplines cover: analytical thinking, communication, ethics, culture, society and global citizenship, scientific enquiry and digital literacy. For more information about available units please visit the handbook.

Bachelor of Liberal Arts and Science (Extended)

(Refer to B Science and B Arts for the list of majors available)

Year	Semester	Units of study			
Foundation	1	Power of Number A	Indigenous Literacies in Academic Contexts A	Sydney Science 2050: Towards the Future	
	2	Power of Number B	Indigenous Literacies in Academic Contexts B	OLE	
1	1	Science Table A Major	Sequence	LS: Analytical Thinking	
	2	Science Table A Major	Sequence	LS: Writing and Rhetoric: Academic Essays	
2	1	Science Table A Major	Elective	LS: elective#	Sequence
	2	Science Table A Major	Elective	LS Ethics^	Sequence
3	1	Science Table A Major	Science Table A Major	LS: elective#	Sequence
	2	Science Table A Major	Science Table A Major	Interdisciplinary Indigenous Cultural Capstone Project	Sequence

^ Ethics units offered at all levels. Units include: Sem 1: Bioethics; Reality, Ethics and Beauty; Practical Ethics; Moral Psychology. Sem 2: Science, Ethics and Society.

Elective unit disciplines cover: analytical thinking; communication; ethics; culture, society and global citizenship; scientific enquiry; digital literacy

Bachelor of Psychology

Year	Semester	Units of study			
1	1	Psychology 1001	Mathematics and Data Selective units #	Elective	Minor
	2	Psychology 1002	Elective	Elective	Minor
2	1	Statistics and Research Methods for Psychology	Brain and Behaviour Psychology	Elective	Minor
	2	Perception, Cognition and Intelligence	Personality and Social Psychology	Elective	Minor
3	1	Psychology selective^	Additional Psychology (Selective unit) ^	Elective	Minor
	2	Psychology selective^	Psychology Interdisciplinary Project*	Advanced Statistics for Psychology	Minor
4	1	Honours Research Project A	Advanced Psychometrics	Advanced Psychology Seminar A	Advanced Psychology Seminar B
	2	Honours Research Project B	Honours Research Project C	Honours Research Project D	Foundations of Professional Psychology

Mathematics and Data selective units: Foundations of Data Science; Mathematics 1A; Mathematics 1B; Mathematics Toolbox for Science; Discrete Mathematics for Computation (Sem 2)

^ Third year selective units: Sem 1: Learning and Behaviour; Cognitive Psychology, Personality and Psychological Assessment (no availability for 2024); Social Psychology; Mental Health Conditions; Psychology and Psychiatry: History and Phil
Sem 2: Perceptual Systems; Behavioural and Cognitive Neuroscience; Developmental Psychology; Applied Psychology; Coaching Skills for Work and Life;
*Interdisciplinary project units: Sem 1: Learning and Behaviour; Cognitive Psychology; Social Psychology; Science Interdisciplinary Project. Sem 2: Perceptual Systems; Behavioural and Cognitive Neuroscience; Psychology Interdisciplinary Project; Science Interdisciplinary Project; Applied Psychology; Science Interdisciplinary Project.

Bachelor of Science (Extended)

Year	Semester	Units of study			
1	1	Power of Number A	Indigenous Literacies in Academic Contexts A	Sydney Science 2050: Towards the Future	
	2	Power of Number B	Indigenous Literacies in Academic Contexts A	OLE	
2	1	Major	Elective	Major/Minor	
	2	Major	Recommended core: Foundations of Data Science	Major/Minor	
3	1	Major	Elective	Elective	Major
	2	Major	Elective	Elective	Major
4	1	Major	Major	Elective	Major
	2	Major	Major	Interdisciplinary Indigenous Cultural Capstone Project	Major

Bachelor of Science – PROGRAM AND MAJOR DEGREE Sample plans

Degree sample plans with programs and majors (utilising the Bachelor of Science OR Bachelor of Science/Bachelor of Advanced Studies degree structure):

Bachelor of Science; Anatomy and Histology major

Year	Semester	Units of study			
1	1	Human Biology	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	Chemistry 1A	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Anatomy and Histology of the Vital Signs	Elective	Elective	Major 2/Minor
	2	Anatomy and Histology of Core Body Functions	Elective	Elective	Major 2/Minor
3	1	Interdisciplinary project	Major selective*	Major 2/Elective	Major 2/Minor
	2	Functional Systems Histology	Major selective*	Major 2/Elective	Major 2/Minor

* Sem 1: Visceral Anatomy; Musculoskeletal Anatomy. Sem 2: Cranial and Cervical Anatomy

Bachelor of Science; Animal Health, Disease and Welfare major

Year	Semester	Units of study			
1	1	Life and Evolution	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	From Molecules to Ecosystem	Elective	Recommended core: Foundations of Data Science	Major 2/Minor
2	1	Immunobiology OR Microbiology OR Microbes, Infection and Immunity (s2)	Elective	Elective	Major 2/Minor
	2	Introductory Veterinary Pathogenesis	Elective	Elective	Major 2/Minor
	1	Agents of Disease	Animal Health and Disease	Major 2/Elective	Major 2/Minor
	2	Animal Behaviour and Welfare Science	Laboratory Disease Investigations OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

Bachelor of Science; Animal Production major

Year	Semester	Units of study			
1	1	Life and Evolution OR Animal Management (s2)	OLE	Recommended core: Mathematic1A	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Foundations of Data Science	Major 2/Minor
2	1	Animal Farming Systems	Elective	Elective	Major 2/Minor
	2	Animal Nutrition	Genetics and Genomics	Elective	Major 2/Minor
3	1	Selective*	Elective	Major 2/Elective	Major 2/Minor
	2	Animal Behaviour and Welfare Science	Production Systems Analysis OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

Major Selective *Sem 1: Animal Reproduction. Sem 2: Aquaculture and Poultry Production

Bachelor of Science; Applied Medical Science major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Biochemistry and Molecular Biology	Elective	Elective	Major 2/Minor
	2	Microbes, Infection and Immunity	Elective	Elective	Major 2/Minor
3	1	Cancer	Interrogating Biomedical and Health Data	Major 2/Elective	Major 2/Minor
	2	Diagnostics and Biomarkers	Clinical Science OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

Bachelor of Science; Astrophysics Program

Year	Semester	Units of study			
1	1	Physics 1 OR 1A	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	Physics 1 (Technological) OR Physics 1B	Elective	Recommended core: Mathematics 1B	Major 2/Minor
2	1	Physics 2A	Assumed Knowledge: Vector Calculus and Differential Equations	Elective	Major 2/Minor
	2	Physics 2B	Astrophysics and Relativity	Data Science in Astronomy	Major 2/Minor
3	1	Quantum, Statistical and Comp Physics	Physics Interdisciplinary OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor
	2	Electrodynamics and Optics	Plasma and Astrophysics OR Condensed Matter and Particle Physics (Sem1)	Major 2/Elective	Major 2/Minor

Bachelor of Science; Biochemistry and Molecular Biology major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Foundations of Data Science	Major 2/Minor
2	1	Biochemistry and Molecular Biology	Elective	Elective	Major 2/Minor
	2	Proteins in Cells	Elective	Elective	Major 2/Minor
3	1	Gene and Genome Regulation	Protein Function and Engineering	Major 2/Elective	Major 2/Minor
	2	Biochemistry and Molecular Biology Project OR Science Interdisciplinary Project OR Synthetic biology: the iGEM Competition (Adv)	Biochemistry of Human Disease OR Beyond the Genome OR Drug Design and Development#	Major 2/Elective	Major 2/Minor

Drug Design and Development is offered in Semester 1 (not as represented in table)

Bachelor of Science; Biology major

Year	Semester	Units of study			
1	1	Life and Evolution OR Human Biology	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Botany OR Zoology	Breadth units*	Elective	Major 2/Minor
	2	Biology and Experimental Design and Analysis	Elective	Elective	Major 2/Minor
3	1	Selective units~	Elective	Major 2/Elective	Major 2/Minor
	2	Biology OR Science Interdisciplinary Project	Field units^	Major 2/Elective	Major 2/Minor

* Breadth units: Sem 1: Zoology OR Botany OR Cell Biology OR Immunobiology OR Microbiology. Sem 2: Comparative Primate Anatomy OR Ecology and Conservation OR Australian Wildlife Biology OR Biology of Insects OR Plants and Environment OR Genetics and Genomics

^ Field units: Sem 1: Tropical Wildlife Biology OR Coral Reef Biology Sem 2: Ecology OR Marine Field Ecology OR Terrestrial Field Ecology

~ Selective units: Sem 1 Evolutionary Biology OR Gene and Technology Genomics OR Developmental Biology OR Applied Plant Function OR Animal Behaviour OR Sem 2: Plant Ecosystem Management OR Marine Biology OR Insect and Human Interactions OR Animal Ecological Physiology

Plant Science minor

Year	Semester	Units of study
1	1	Life and Evolution
	2	From Molecules to Ecosystems
2	1	Botany
	2	Plants and Environment OR Genetics and Genomics
3	1	Applied Plant Function
	2	Selective*

Selective* Sem 1: Gene and Technology Genomics OR Plant Protection OR Developmental Biology OR Sem 2: Plant ecosystem management OR Terrestrial Field Ecology

Bachelor of Science; Chemistry major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	Chemistry 1B	Elective	Recommended core: Mathematics 1B	Major 2/Minor
2	1	Molecular Stability and Reactivity	Elective	Elective	Major 2/Minor
	2	Chemistry selective**	Elective	Elective	Major 2/Minor
3	1	Chemistry selective*	Chemistry selective*	Major 2/Elective	Major 2/Minor
	2	Chemistry selective*	Chemistry OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

**Chemistry selective units of study: Sustainable Chemical Manufacture (Sem 1) OR Chemistry of Biological Molecules OR Chemical Physics

* Chemistry selective units of study: Sem 1: Synthetic Chemistry; Materials Chemistry; Environmental and Analytical Chemistry; Sem 2: Chemical Biology; Molecular Self Assembly; Computational Chemistry

Bachelor of Science; Computer Science major

Year	Semester	Units of study			
1	1	Introduction to Programming	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	Object-Oriented Programming	Elective	Recommended core: Discrete Mathematics for Computation	Major 2/Minor
2	1	Data Structures & Algorithms	Systems Programming	Elective	Major 2/Minor
	2	Models of Computation	Elective	Elective	Major 2/Minor
3	1	Algorithm Design	Computer Science selective units*	Major 2/Elective	Major 2/Minor
	2	Computer Science Project OR Science Interdisciplinary Project	Elective	Major 2/Elective	Major 2/Minor

* Computer Science selective units: Sem 1: Programming Languages and Paradigms (no availability for 2024); Distributed Systems; Introduction to Artificial Intelligence; Sem 2: Graphics and Multimedia; Operating Systems Internals; Discrete Optimization (no availability for 2024).

Bachelor of Science; Data Science major

Year	Semester	Units of study			
1	1	Foundations of Data Science	OLE	Elective	Major 2/Minor
	2	Informatics: Data and Computation	Science	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Data Science: Big Data and Data Diversity	Elective	Elective	Major 2/Minor
	2	Data Analytics: Learning from Data	Data Selective^	Elective	Major 2/Minor
3	1	Data methodology unit#	Data Science Capstone	Major 2/Elective	Major 2/Minor
	2	Data methodology# OR application** OR Selective Interdisciplinary project ***	Elective	Major 2/Elective	Major 2/Minor

^ Data selective: Sem 1: Computational Modelling; Probability and Estimation Theory Sem 2: Data Structures and Algorithms; Genetics and Genomics; Molecular Systems Biology (no availabilities for 2024).

Data methodology: Sem 1: Algorithm Design; Introduction to Artificial Intelligence; Scalable Data Management; Stochastic Processes; Applied Linear Models; Time Series (Advanced); Statistical Consulting (Advanced) Sem 2: Human-in-the-Loop Data Analytics; Statistical Inference.

**Application unit: Sem 1: Statistics in the Natural Sciences; Interrogating Biomedical and Health Data; Sem 2: Environmental GIS; Applied Genomics; Beyond the Genome

***Selective Interdisciplinary Project: Science Interdisciplinary Project OR Statistical Machine Learning (Sem 2 only).

Bachelor of Science; Ecology and Evolutionary Biology major

Year	Semester	Units of study			
1	1	Life and Evolution	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules and Ecosystems	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Elective	Elective	Elective	Major 2/Minor
	2	Biology Experimental Design and Analysis	Ecology and Conservation	Elective	Major 2/Minor
3	1	Evolutionary Biology	Selective unit*	Major 2/Elective	Major 2/Minor
	2	Ecology	Biology OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

* Selective: Sem 1: Wildlife Conservation; Animal Behaviour Sem 2: Marine Field Ecology; Terrestrial Field Ecology; Animal Ecological Physiology.

Wildlife Conservation minor

Year	Semester	Units of study	
1	1	Life and Evolution	
	2	From Molecules to Ecosystems	
2	1		
	2	Biology Experimental Design and Analysis;	Ecology and Conservation
3	1	Wildlife Conservation	
	2	Ecology	

Bachelor of Science; Environmental Science program

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	Global Challenges: Food, Water, Climate OR Earth, Environment and Society (s1)	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Environmental Monitoring	Soil and Water: Earth's Life Support Systems	Elective	Major 2/Minor
	2	Australian Wildlife Biology OR Plants and Environment OR Biology Experimental Design and Analysis OR Applied Statistical Methods (s1)	Earth Surface Processes	Elective	Major 2/Minor
3	F1	Disciplinary Selective^	Major 2/Elective	Major 2/Elective	Major 2/Minor
	2	Environmental GIS	Protecting the Soil Resource OR Science Interdisciplinary Project	Disciplinary Selective^	Major 2/Minor

^ Disciplinary Selective: Sem 1: Wildlife Conservation, OR Science Interdisciplinary Project. Sem 2: Hydrological Modelling and Monitoring; Terrestrial Plant Ecology; Plant Ecosystem Management, Protecting the soil resource, Science Interdisciplinary Project

Bachelor of Science; Environmental Studies major

Year	Semester	Units of study			
1	1	Earth, Environment and Society	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	Selective#	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Environmental and Resource Management	Elective	Elective	Major 2/Minor
	2	Environmental Governance and Assessment	Elective	Elective	Major 2/Minor
3	1	Environmental Law and Ethics	Selective^ OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor
	2	Environmental Studies Project	Selective^	Major 2/Elective	Major 2/Minor

1000 level selective units: Sem 1: Life and Evolution; Principles of Economics; From Molecules to Ecosystems; Chemistry 1A; Sem 2: Global Challenges: Food, Water, Climate; Introductory Geography.

^ 3000 level selective units: Sem 1: Urban Citizenship and Sustainability Sem 2: Energy and the Environment; GIS for land and Coastal Management; Asia-Pacific Field School; Global Change, Sustainable Livelihoods

Bachelor of Science; Financial Mathematics and Statistics major

Year	Semester	Units of study			
1	1	Mathematics 1A	Science	OLE	Major 2/Minor
	2	Mathematics 1B	Science	Elective	Major 2/Minor
2	1	Probability and Estimation Theory	Elective	Elective	Major 2/Minor
	2	Optimisation and Financial Mathematics	Data Analytics: Learning from Data	Elective	Major 2/Minor
3	1	Stochastic Processes	Elective	Major 2/Elective	Major 2/Minor
	2	Financial Derivatives	Projects in Financial Mathematics OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

Bachelor of Science; Food Science major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Biochemistry and Molecular Biology	Elective	Elective	Major 2/Minor
	2	Principles of Food Science	Elective	Elective	Major 2/Minor
3	1	Food Processing and Value Adding	Chemistry and Biochemistry of Foods	Major 2/Elective	Major 2/Minor
	2	Food Product Development OR Science Interdisciplinary Project	Food Quality and Safety	Major 2/Elective	Major 2/Minor

Bachelor of Science; Genetics and Genomics major

Year	Semester	Units of study			
1	1	Chemistry 1A OR Life and Evolution OR Human Biology	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Biochemistry and Molecular Biology	Elective	Elective	Major 2/Minor
	2	Genetics and Genomics	Elective	Elective	Major 2/Minor
3	1	Gene Technology and Genomics	Evolutionary Biology OR Beyond the Genome (Sem 2)	Major 2/Elective	Major 2/Minor
	2	Applied Genomics	Genomics Interdisciplinary OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

Bachelor of Science; Geography major

Year	Semester	Units of study			
1	1	Earth Environment and Society	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	Introductory Geography	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Environmental and Resource Management	Elective	Elective	Major 2/Minor
	2	Selective^	Elective	Elective	Major 2/Minor
3	1	Selective *	Selective* OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor
	2	Integrated Geographical Practice	Selective* OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

^ 2000-level Selective units: Hazards, Climate Change and Disasters; Earth Surface Processes; The Geography of Cities and Regions (Sem 1)

* 3000-level Selective units: Sem 1: Environmental Law and Ethics; Coastal Environments and Processes; Environment, Sediment and Climate Change; Urban Citizenship and Sustainability; Sem 2: GIS for Land and Coastal Management; Global Change, Sustainable Livelihoods; Asia-Pacific Field School

Bachelor of Science; Geology and Geophysics major

Year	Semester	Units of study			
1	1	Earth Environment and Society	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	Earth Science: Past and Future of our Planet	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Volcanoes, Resources and Sustainability	Elective	Elective	Major 2/Minor
	2	Earth's History and the Biosphere	Elective	Elective	Major 2/Minor
3	1	Deep Mantle to Earth Surface Dynamics	Environment, Sediment and Climate Change	Major 2/Elective	Major 2/Minor
	2	Field Geology in the Digital Age*	Earth Systems Research Project OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

*Offered as July Intensive

Bachelor of Science; Health Major (Table S – non-Health Stream)

Year	Semester	Units of study			
1	1	Major 1	OLE	Recommended core: Foundations of Data Science	Introduction to Health and Health Care
	2	Major 1	Elective	Recommended core: Sydney Science 2050: Towards the Future	Society and Health
2	1	Major 1	Elective	Elective	Introduction to research methods in health
	2	Major 1	Elective	Elective	Innovations in eHealth
3	1	Major 1	Major 1	Disciplinary project unit***	Research unit *
	2	Major 1	Major 1	Selective unit ****	Interdisciplinary experience unit **

Bachelor of Science; History and Philosophy of Science major

Year	Semester	Units of study			
1	1	Bioethics	OLE	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
	2	What is This Thing called Science?	Elective	Mathematics	Major 2/Minor
2	1	The Birth of Modern Science	Elective	Elective	Major 2/Minor
	2	Science, Ethics and Society	Elective	Elective	Major 2/Minor
3	1	Selective^	Selective^	Major 2/Elective	Major 2/Minor
	2	The Scientific Revolution	HPSC OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

^ Selective units: Sem 1: History and Philosophy of the Physical Sciences; Psychology and Psychiatry: History and Phil. Sem 2: History and Philosophy of the Biomedical Sciences.

Bachelor of Science; Immunology and Pathology major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Immunobiology	Elective	Elective	Major 2/Minor
	2	Microbes, Infection and Immunity	Elective	Elective	Major 2/Minor
3	1	Molecular and Cellular Immunology	Pathogenesis of Human Disease 1	Major 2/Elective	Major 2/Minor
	2	Selective^	Immunopathology OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

^ Selective units: Pathogenesis of Human Disease 2; Immunology in Human Disease

Immunology minor

Year	Semester	Units of study
1	1	Chemistry 1A
	2	From Molecules to Ecosystems
2	1	Immunobiology
	2	Microbes, Infection and Immunity *
3	1	Molecular and Cellular Immunology
	2	Immunology in Human Disease

*MIMI coded OR MEDS coded units (MEDS coded units of study are only available to students in the Medical Science stream)

Pathology minor

Year	Semester	Units of study
1	1	Chemistry 1A
	2	From Molecules to Ecosystems
2	1	Immunobiology
	2	Microbes, Infection and Immunity
3	1	Pathogenesis of Human Disease 1
	2	Pathogenesis of Human Disease 2

Bachelor of Science; Infectious Diseases major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Biochemistry and Molecular Biology OR Immunobiology OR Microbiology	Elective	Elective	Major 2/Minor
	2	Microbes, Infection and Immunity	Elective	Elective	Major 2/Minor
3	1	Selective^	Selective^	Major 2/Elective	Major 2/Minor
	2	Infectious Diseases	Infectious Diseases OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

^ Selective units: Sem 1: Microbes in Health and Disease; Virology; Sem 2: Medical and Applied Virology

Virology minor

Year	Semester	Units of study
1	1	Chemistry 1A
	2	From Molecules to Ecosystems
2	1	Biochemistry and Molecular Biology OR Immunobiology OR Microbiology
	2	Microbes, Infection and Immunity
3	1	Virology
	2	Medical and Applied Virology

Bachelor of Science; Life Sciences Program, Biochemistry and Molecular Biology

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	From Molecules to Ecosystems	Chemistry 1B OR Human Biology (Sem 1)	Recommended core: Foundations of Data Science	Major 2/Minor
2	1	Biochemistry and Molecular Biology	Program selective*	Elective	Major 2/Minor
	2	Proteins in Cells	Program selective*	Elective	Major 2/Minor
3	1	Gene and Genome Regulation	Protein Function and Engineering	Major 2/Elective	Major 2/Minor
	2	Biochemistry and Molecular Biology Project OR Science Interdisciplinary Project OR Synthetic biology: the iGEM Competition (Adv)	Biochemistry of Human Disease OR Beyond the Genome OR Drug Design and Development#	Major 2/Elective	Major 2/Minor

Drug Design and Development is offered in Semester 1 (not as represented in table)

*Program selective: Sem 1: Cell Biology; Microbiology; Molecular Systems Biology (no availability for 2024). Sem 2: Genetics and Genomics

Bachelor of Science; Life Sciences Program, Genetics and Genomics

Year	Semester	Units of study			
1	1	Chemistry 1A OR Life and Evolution OR Human Biology	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Chemistry 1A OR Chemistry 1B OR Human Biology (Sem 1)	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Biochemistry and Molecular Biology	Program selective*	Program selective*	Major 2/Minor
	2	Genetics and Genomics	Elective	Elective	Major 2/Minor
3	1	Gene Technology and Genomics	Evolutionary Biology OR Beyond the Genome (Sem 2)	Major 2/Elective	Major 2/Minor
	2	Applied Genomics	Genomics Interdisciplinary OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

*Program selective: Sem 1: Cell Biology; Microbiology.

Bachelor of Science; Life Sciences Program, Microbiology

Year	Semester	Units of study			
1	1	Life and Evolution OR Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Chemistry 1A OR Chemistry 1B OR Human Biology (Sem 1)	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Microbiology	Program selective*	Elective	Major 2/Minor
	2	Microbes, Infection and Immunity	Program selective*	Elective	Major 2/Minor
3	1	Microbes in Health and Disease	Virology	Major 2/Elective	Major 2/Minor
	2	Microbiology Interdisciplinary OR Science Interdisciplinary Project	Microbiology in a Changing World	Major 2/Elective	Major 2/Minor

*Program selective: Sem 1: Biochemistry and Molecular Biology; Cell Biology; Molecular Systems Biology (no availability for 2024). Sem 2: Genetics and Genomics

Bachelor of Science; Marine Science major

Year	Semester	Units of study			
1	1	Life and Evolution OR Earth, Environment and Society	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems OR Earth Science: Past and Future of our Planet	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Ocean, Coasts and Climate Change	Elective	Elective	Major 2/Minor
	2	Biology Experimental Design and Analysis	Elective	Elective	Major 2/Minor
3	1	Coastal Environments and Processes	Marine Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor
	2	Marine Biology	Selective^	Major 2/Elective	Major 2/Minor

^ Selective units: GIS for Land and Costal Management; Marine Field Ecology; Coral Reef Biology (Intensive February); Aquaculture and Poultry Production; Science Interdisciplinary Project.

Bachelor of Science; Mathematical Sciences Program, Data Science

Year	Semester	Units of study			
1	1	Foundations of Data Science	Mathematics 1A	Science	Minor
	2	Informatics: Data and Computation	Elective/ Dalyell	OLE	Minor
2	1	Data Science: Big Data and Data Diversity	Program selective#	Elective	Minor
	2	Data Analytics: Learning from Data	Data Selective^	Elective	Minor
3	1	Data Science Capstone	Program selective*	Elective/ Dalyell	Minor
	2	Data methodology# OR application** OR Selective Interdisciplinary project ***	Data Methodology unit #	Elective	Minor

Program selectives (all advanced): Vector Calculus and Differential Equations OR Linear and Abstract Algebra OR Probability and Statistical Models

Data methodology: Sem 1: Algorithm Design; Introduction to Artificial Intelligence; Scalable Data Management; Stochastic Processes; Applied Linear Models; Time Series (Advanced); Statistical Consulting (Advanced) Sem 2: Human-in-the-Loop Data Analytics; Statistical Inference.

**Application unit: Sem 1: Statistics in the Natural Sciences; Interrogating Biomedical and Health Data; Sem 2: Environmental GIS; Applied Genomics; Beyond the Genome

***Selective Interdisciplinary Project: Science Interdisciplinary Project OR Statistical Machine Learning (Sem 2 only).

Bachelor of Science; Mathematical Sciences Program, Financial Mathematics and Statistics

Year	Semester	Units of study			
1	1	Mathematics 1A	Elective/ Dalyell	OLE	Minor
	2	Mathematics 1B	Informatics: Data and Computation	Science	Minor
2	1	Probability and Estimation Theory	Vector Calculus and Differential Eqs (Adv) OR Linear and Abstract Algebra (Advanced)	Elective	Minor
	2	Optimisation and Financial Mathematics	Data Analytics: Learning from Data	Elective	Minor
3	1	Stochastic Processes	Program selective#	Elective	Minor
	2	Financial Derivatives	Projects in Financial Mathematics OR Science Interdisciplinary Project	Elective/ Dalyell	Minor

Program selectives: Sem 1: Data Science Capstone; Metric Spaces (Adv); Rings, Fields and Galois Theory (Adv); Nonlinear ODEs with Applications (Adv); Fluid Dynamics (Advanced); Mathematical Computing; PDEs and Waves (Advanced); Complex Analysis (Advanced); Stochastic Processes (Advanced); Applied Linear Models (Advanced); Time Series (Advanced); Statistical Consulting (Advanced). Sem 2: Projects in Financial Mathematics; Projects in Mathematics; Differential Geometry (Advanced); Measure Theory and Fourier Analysis (Adv); Financial Derivatives (Advanced); Lagrangian and Hamiltonian Dynamics (Adv); PDEs and Waves (Advanced); Statistical Inference (Advanced); Statistical Machine learning.

Bachelor of Science; Mathematical Sciences Program, Mathematics

Year	Semester	Units of study			
1		Mathematics 1A	Elective/ Dalyell	OLE	Minor
	2	Mathematics 1B	Informatics: Data and Computation	Science	Minor
2	1	Vector Calculus and Differential Equations	Linear and Abstract Algebra	Data Analytics: Learning from Data (Adv)~ OR Probability and Statistical Models (Adv)	Minor
	2	Analysis OR Number Theory and Cryptography	Elective	Elective	Minor
3	1	Selective#	Program selective^	Elective/ Dalyell	Minor
	2	Selective#	Projects in Mathematics OR Science Interdisciplinary Project	Elective	Minor

~ Semester 2

Selective units: Sem 1: Metric Spaces (Advanced); Rings, Fields and Galois Theory (Adv); Nonlinear ODEs with Applications; Algebra and Logic; Mathematical Computing; Fluid Dynamics (Advanced); Complex Analysis (Advanced); Sem 2: Geometry and Topology; PDEs and Waves; Differential Geometry (Advanced); Measure Theory and Fourier Analysis (Adv); Langrangian and Hamiltonian Dynamics (Adv)

^ Program selective: Data Science capstone; (S2) Projects in Financial Mathematics; (S1) Stochastic Processes; Applied Linear Models; Statistical Inferences; Metric Spaces, … Sem 2: Statistical Machine learning

Bachelor of Science; Mathematical Sciences Program, Statistics

Year	Semester	Units of study			
1	1	Mathematics 1A	Elective/ Dalyell	OLE	Minor
	2	Mathematics 1B	Informatics: Data and Computation	Science	Minor
2	1	Probability and Estimation Theory	Vector Calculus and Differential Eqs (Adv) OR Linear and Abstract Algebra (Advanced)	Elective	Minor
	2	Data Analytics: Learning from Data	Program selective#	Elective	Minor
3	1	Applied Linear Models	Stochastic Process OR Time Series OR Statistical Consulting	Elective	Minor
	2	Statistical Inference	Statistical Machine Learning OR Science Interdisciplinary Project	Elective/ Dalyell	Minor

Program selectives (all advanced) - Semester 1: Vector Calculus and Differential Equations; Linear Abstract Algebra; Semester 2: Analysis; Number Theory and Cryptography; Optimisation and Financial Mathematics

Bachelor of Science; Mathematics major

Year	Semester	Units of study			
1	1	Mathematics 1A	Science	OLE	Major 2/Minor
	2	Mathematics 1B	Science	Elective	Major 2/Minor
2	1	Vector Calculus and Differential Equations	Linear and Abstract Algebra	Elective	Major 2/Minor
	2	Analysis OR Number Theory and Cryptography	Elective	Elective	Major 2/Minor
3	1	Selective^	Elective	Major 2/Elective	Major 2/Minor
	2	Selective^	Projects in Mathematics OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

^Selective units: Sem 1: Metric Spaces (Adv); Rings, Fields and Galois Theory (Adv); Nonlinear ODEs with Applications; Algebra and Logic; Mathematical Computing; Fluid Dynamics (Advanced); Complex Analysis (Advanced). Sem 2: Geometry and Topology; PDEs and Waves; Differential Geometry (Advanced); Measure Theory and Fourier Analysis (Adv); Langrangian and Hamiltonian Dynamics (Adv)

Bachelor of Science; Medicinal Chemistry major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	Chemistry 1B	Elective	Recommended core: Mathematics 1B	Major 2/Minor
2	1	Molecular Stability and Reactivity	Foundations of Pharmacology	Elective	Major 2/Minor
	2	Elective	Elective	Elective	Major 2/Minor
3	1	Drug Design and Development	From Molecules to Therapeutics	Major 2/Elective	Major 2/Minor
	2	Medicinal Chemistry Interdisciplinary OR Science Interdisciplinary Project	Chemical Biology OR Synthetic Chemistry (Sem 1)	Major 2/Elective	Major 2/Minor

Bachelor of Science; Microbiology major

Year	Semester	Units of study			
1	1	Life and Evolution OR Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Microbiology	Elective	Elective	Major 2/Minor
	2	Microbes, Infection and Immunity	Elective	Elective	Major 2/Minor
3	1	Microbes in Health and Disease	Virology	Major 2/Elective	Major 2/Minor
	2	Microbiology Interdisciplinary OR Science Interdisciplinary Project	Microbiology in a Changing World	Major 2/Elective	Major 2/Minor

Bachelor of Science; Neuroscience major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	Psychology 1002	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Brain and Behavioural Psychology	Elective	Elective	Major 2/Minor
	2	Human Neurobiology	Elective	Elective	Major 2/Minor
3	1	Functional Neuroanatomy	Neural Information Processing	Major 2/Elective	Major 2/Minor
	2	Neuropharmacology	Behavioural and Cognitive Neuroscience OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

Bachelor of Science; Nutrition Science major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Biochemistry and Molecular Biology	Elective	Elective	Major 2/Minor
	2	Proteins in Cells	Elective	Elective	Major 2/Minor
3	1	Introductory Nutrition and Metabolism	Food Processing and Value Adding	Major 2/Elective	Major 2/Minor
	2	Metabolic Cybernetics	Selective^	Major 2/Elective	Major 2/Minor

^ Selective units: Sem 1: Gene and Genome Regulation; Protein Function and Engineering. Sem 2: Biochemistry of Human Disease; Science Interdisciplinary Project

Bachelor of Science; Pharmacology major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Foundations of Pharmacology	Elective	Elective	Major 2/Minor
	2	Clinical Applications of Pharmacology	Elective	Elective	Major 2/Minor
3	1	Toxicology	Drug Design and Development	Major 2/Elective	Major 2/Minor
	2	Neuropharmacology	Pharmacology Interdisciplinary OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

Bachelor of Science; Physics major

Year	Semester	Units of study			
1	1	Physics 1 OR 1A	OLE	Recommended core: Mathematics 1A	Major 2/Minor
	2	Physics 1 (Technological) OR Physics 1B	Elective	Recommended core: Mathematics 1B	Major 2/Minor
2	1	Physics 2A	Assumed Knowledge: Vector Calculus and Differential Equations	Elective	Major 2/Minor
	2	Physics 2B	Elective	Elective	Major 2/Minor
3	1	Quantum, Statistical and Comp Physics	Physics Interdisciplinary OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor
	2	Electrodynamics and Optics	Plasma and Astrophysics OR Condensed Matter and Particle Physics (Sem1)	Major 2/Elective	Major 2/Minor

Bachelor of Science; Physiology major

Year	Semester	Units of study			
1	1	Chemistry 1A	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems OR Human Biology (Sem 1)	Elective	Recommended core: Sydney Science 2050: Towards the Future	Major 2/Minor
2	1	Key Concepts in Physiology	Elective	Elective	Major 2/Minor
	2	Applied Physiology	Elective	Elective	Major 2/Minor
3	1	Cell Physiology of Disease	Systems Physiology	Major 2/Elective	Major 2/Minor
	2	Physiology Interdisciplinary OR Science Interdisciplinary Project	Frontiers in Physiology	Major 2/Elective	Major 2/Minor

Bachelor of Science; Plant Production major

Year	Semester	Units of study			
1	1	Life and Evolution	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Plant Management in Agroecosystems	Elective	Elective	Major 2/Minor
	2	Plants and Environment	Elective	Elective	Major 2/Minor
3	1	Plant Protection	Selective^	Major 2/Elective	Major 2/Minor
	2	Sustainable Plant Production	Selective^	Major 2/Elective	Major 2/Minor

^ Selective units: Sem 1: Agroecosystems in Developing Countries (not available in 2024); Applied Plant Function; Production Horticulture; Science Interdisciplinary Project. Sem 2: Environmental GIS; Science Interdisciplinary Project

Bachelor of Science; Plant Science major

Year	Semester	Units of study			
1	1	Life and Evolution	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Botany	Elective	Elective	Major 2/Minor
	2	Plants and Environment OR Genetics and Genomics	Elective	Elective	Major 2/Minor
3	1	Applied Plant Function	Selective^	Major 2/Elective	Major 2/Minor
	2	Plant Science Interdisciplinary OR Science Interdisciplinary Project	Selective^	Major 2/Elective	Major 2/Minor

^ Selective units: Sem 1: Gene Technology and Genomics; Plant Protection; Developmental Biology; Sem 2: Plant Ecosystem Management; Terrestrial Field Ecology

Bachelor of Science; Psychology program

Year	Semester	Units of study			
1	1	Psychology 1001	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	Psychology 1002	Elective	Mathematics 1A	Major 2/Minor
2	1	Statistics and Research Methods for Psychology	Brain and Behavioural Psychology	Elective	Major 2/Minor
	2	Perception, Cognition and Intelligence	Personality and Social Psychology	Elective	Major 2/Minor
3	1	Psychology selective^	Major 2/Elective	Major 2/Elective	Major 2/Minor
	2	Psychology selective^	Psychology Interdisciplinary Project*	Advanced Statistics for Psychology	Major 2/Minor

^ Third year selective units: Sem 1: Psychology and Psychiatry: History and Philosophy; Learning and Behaviour; Cognitive Psychology; Personality and Psychological Assessment (Not available in 2024); Social Psychology; Mental Health Conditions. Sem 2: Perceptual Systems; Behavioural and Cognitive Neuroscience; Developmental Psychology; Applied Psychology.
*Interdisciplinary project units: Sem 1: Learning and Behaviour; Cognitive Psychology; Social Psychology; Science Interdisciplinary Project. Sem 2: Perceptual Systems; Behavioural and Cognitive Neuroscience; Psychology Interdisciplinary Project; Science Interdisciplinary Project; Applied Psychology; Science Interdisciplinary Project.

Bachelor of Science; Psychological Science major

Year	Semester	Units of study			
1	1	Psychology 1001	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	Psychology 1002	Elective	Mathematics 1A	Major 2/Minor
2	1	Statistics and Research Methods for Psych	Elective	Elective	Major 2/Minor
	2	Selective#	Selective#	Elective	Major 2/Minor
3	1	Selective^	Elective	Major 2/Elective	Major 2/Minor
	2	Selective^	Psychology Interdisciplinary Project*	Major 2/Elective	Major 2/Minor

Second year selective units: Sem 1: Brain and Behavioural Psychology; Sem 2: Perception, Cognition and Intelligence; Personality and Social Psychology
^ Third year selective units: Sem 1: Psychology and Psychiatry: History and Philosophy; Learning and Behaviour; Cognitive Psychology; Personality and Psychological Assessment (Not available in 2024); Mental Health Conditions; Social Psychology; Sem 2: Advanced Statistics for Psychology; Perceptual Systems; Behavioural and Cognitive Neuroscience; Developmental Psychology; Applied Psychology;
*Interdisciplinary project units: Sem 1: Learning and Behaviour; Cognitive Psychology; Social Psychology; Sem 2: Perceptual Systems; Behavioural and Cognitive Neuroscience; Applied Psychology; Psychology Interdisciplinary Project; Science Interdisciplinary Project.

Bachelor of Science; Software Development major

Year	Semester	Units of study			
1	1	Introduction to Programming	Elective	Recommended core: Foundations of Data Science	Major 2/Minor
	2	Object-Oriented Programming	OLE	Recommended core: Discrete Mathematics for Computation	Major 2/Minor
2	1	Data Structures and Algorithms	Elective	Elective	Major 2/Minor
	2	Software Construction and Design 1	Agile Software Development Practices	Elective	Major 2/Minor
3	1	Software Construction and Design 2	Elective	Major 2/Elective	Major 2/Minor
	2	Software Development Project OR Science Interdisciplinary Project	Human-Computer Interaction	Major 2/Elective	Major 2/Minor

Bachelor of Science; Soil Science and Hydrology major

Year	Semester	Units of study			
1	1	Chemistry 1A OR Earth, Environment and Society OR Global Challenges: Food, Water, Climate (Sem 2)	OLE	Recommended core: Foundations of Data Science	Major 2/Minor
	2	From Molecules to Ecosystems OR Life and Evolution (Sem 1)	Elective	Recommended core: Mathematics 1A	Major 2/Minor
2	1	Soil and Water: Earth's Life Support Systems	Elective	Elective	Major 2/Minor
	2	Earth Surface Processes	Elective	Elective	Major 2/Minor
3	1	Statistics in the Natural Sciences OR Science Interdisciplinary Project	Elective	Major 2/Elective	Major 2/Minor
	2	Hydrological Modelling and Monitoring	Protecting the Soil Resource	Environmental GIS	Major 2/Minor

Bachelor of Science; Statistics major

Year	Semester	Units of study			
1	1	Mathematics 1A	Science	OLE	Major 2/Minor
	2	Mathematics 1B or Foundations of Data Science	Science	Elective	Major 2/Minor
2	1	Probability and Estimation Theory	Elective	Elective	Major 2/Minor
	2	Data Analytics: Learning from Data	Elective	Elective	Major 2/Minor
3	1	Applied Linear Models	Stochastic Process OR Time Series OR Statistical Consulting	Major 2/Elective	Major 2/Minor
	2	Statistical Inference	Statistical Machine Learning OR Science Interdisciplinary Project	Major 2/Elective	Major 2/Minor

Contact Details

Faculty of Science

Phone: 1800 SYD UNI (1800 793 864) (in Australia) or +61 2 8627 1444 (outside Australia)

Online form: Make an enquiry - sydney.edu.au/make-an-enquiry

Website: sydney.edu.au/science

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