



First Year Enrolment Guide 2020

Faculty of Science, Medicine and Health

Course Name: Bachelor of Science
Course Code: 742
UAC Code: 757621

You are required to select a Major for this course.

Majors:	Cell and Molecular Biology	See page 4
	Chemistry	See page 6
	Ecology and Conservation Biology	See page 7
	Environment	See page 8
	Geology	See page 9
	Physical Geography	See page 13

IMPORTANT INFORMATION

FIRST YEAR CHEMISTRY

Students who have completed Year 12 Chemistry (or equivalent) with a mark of 65% or more must select CHEM101 and CHEM102. All other students must select CHEM104 and CHEM105.

Students who enrol in CHEM104 and CHEM105 must also successfully complete CHEM106 (Summer Session) before they will be allowed to enrol in any second year Chemistry subjects.

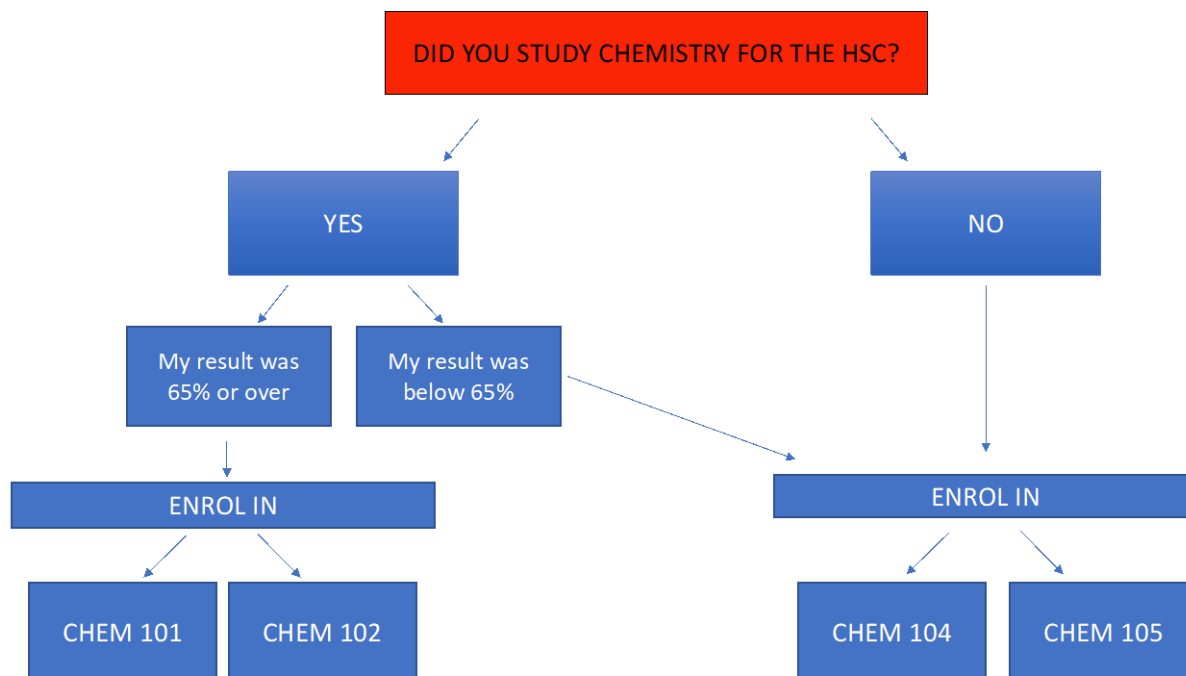
MINIMUM MATHEMATICS REQUIREMENT

There is a minimum mathematics requirement for all Science degrees. Students who have completed HSC Mathematics or equivalent (not General Mathematics) at Band 4 or higher (mark of 70% or higher), or who have completed HSC Mathematics Extension 1 or equivalent, are not required to complete a compulsory mathematics subject. All other students are required to complete at least MATH151 (or equivalent) normally in the first year of enrolment.

A table is available on the next page which will assist you in determining whether you need to enrol in MATH151 or not.



WHICH CHEMISTRY SUBJECT SHOULD I ENROL IN?



NOTES

¹ Students who have completed Year 12 Chemistry (or equivalent) with a mark of 65% or more must select CHEM101 and CHEM102. All other students must select CHEM104 and CHEM105.

Bridging courses are available and strongly recommended for students with no background or a limited background in Biology and Chemistry. More information on these courses is available at: <https://www.uow.edu.au/student/admin/bridging-courses/>

² There is a minimum mathematics requirement for all Science degrees. Students who have completed HSC Mathematics or equivalent (not General Mathematics) at Band 4 or higher (mark of 70% or higher), or who have completed HSC Mathematics Extension 1 or equivalent, are not required to complete a compulsory mathematics subject. All other students are required to complete at least MATH151 (or equivalent) normally in the first year of enrolment.

A table is available on Page 2 which will assist you in determining whether you need to enrol in MATH151 or not.+

NEED HELP?

If you have any questions about your enrolment or studying at UOW, please [enquire here](#) or call our team on 1300 367 869. You can also refer to you our [enrolment FAQs page](#) for self-help options



Do you need to study MATH151 in the first year of your Science degree at UOW?

NSW	Mathematics General 2	Mathematics	Mathematics Extension 1	Mathematics Extension 2
ACT	Mathematical Applications	Mathematical Methods (Major)	Specialist Mathematics (major/minor)	Specialist Mathematics (double major)
ACT		Specialist Mathematics (Major)		Specialist Mathematics-ANU
IB	Mathematics Studies (SL)	Mathematics Studies (HL)	Mathematics (HL)	Further Mathematics (HL)
QCE	Mathematics A	Mathematics B	Mathematics C	
SACE/NTCET	Mathematical Methods	Mathematical Studies		Specialist Mathematics
TCE	General Mathematics	Mathematics Methods	Mathematics I	Advanced Calculus and Applications 1A
TCE			Mathematics II	Advanced Calculus and Applications 1B
TCE				Calculus and Applications 1A
TCE				Calculus and Applications 1B
TCE				Mathematics Specialised
VIC	Further Mathematics	Mathematical Methods (CAS)		Specialist Mathematics
VIC		Mathematical Methods (CAS) CBE		
WA	Mathematics 2C/2D	Mathematics 3C/3D	Mathematics Specialist 3A/3B	Mathematics Specialist 3C/3D
WA	Mathematics 3A/3B			

If you completed any of these subjects then you must complete MATH151 at UOW

If you completed any of these subjects with a mark of 70% or higher you do not need to complete MATH151 at UOW.

If you scored a mark of less than 70% you must complete MATH151 at UOW

If you completed any of these subjects you do not need to complete MATH151 at UOW

If you completed any of these subjects you do not need to complete MATH151 at UOW

Students from UOW College:

You do not have to complete MATH151 if you have completed one of the UOW College subjects below and obtained the minimum mark shown

Subject	Minimum mark
MATH010	50%
FSPW216 or FSPW 218 - Mathematics 2	65%

Note: students who have completed FSW017 (General Mathematics) must complete MATH151 at UOW



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UAC Code: 757621
Major: Cell and Molecular Biology

Wollongong

COMPULSORY SUBJECTS

Students doing this course must enrol in the following subjects. Elective subjects are shown in the next section.

Autumn Session (1)		Spring Session (2)	
SCII101	Global Challenges in Science	BIOL103	Molecules, Cells and Organisms
¹ CHEM101	Chemistry IA: Introductory Physical and General Chemistry	¹ CHEM102	Chemistry 1B: Structure and Reactivity of Molecules for Life
OR		OR	
¹ CHEM104	Foundation Chemistry: Properties of Matter	¹ CHEM105	Foundation Chemistry: Reactions and Structures

ELECTIVE SUBJECTS

Students doing this course must choose elective subjects in Autumn Session (1) and Spring Session (2) from the lists below.

Autumn Session (1)		Spring Session (2)	
Choose subjects from the following:		Choose subjects from the following:	
BIOL104	Evolution, Biodiversity and Environment	PHYS155	Introduction to Biomedical Physics
BIOL105	Functional Biology of Animals and Plants	MEDI112	Introduction to Anatomy and Physiology 11
MEDI100	Human Structure and Function		
STS 112	The Scientific Revolution		
<i>If required</i> ² MATH151	General Mathematics 1A	OR Choose TWO (2) elective subjects from the Science Schedule of Subjects: see pages 21-22 OR If you are interested in pursuing electives studies in another discipline, choose TWO (2) elective subjects from the UOW General Schedule of Subjects: see pages 23-26 OR Students should consider enrolling in STAT252 in Spring session if MATH151 is not required.	
<i>If MATH151 is not required:</i> Choose ONE (1) elective subject from the Science Schedule of Subjects: see pages 21-22 OR If you are interested in pursuing electives studies in another discipline, choose ONE (1) elective subject from the UOW General Schedule of Subjects: see pages 23-26			

Note: Students wishing to take MARE200 should note that either EESC102: Earth's Interconnected Spheres OR EESC103: Earth's Dynamic Surface is required as a prerequisite in addition to BIOL104 and CHEM102 or CHEM105.



First Year Enrolment Guide 2020

Faculty of Science, Medicine and Health

Course Name: Bachelor of Science
Course Code: 742
UAC Code: 757621
Major: Chemistry

Wollongong

COMPULSORY SUBJECTS

Students doing this course must enrol in the following subjects. Elective subjects are shown in the next section.

Autumn Session (1)		Spring Session (2)	
SCII101	Global Challenges in Science	BIOL103	Molecules, Cells and Organisms
¹ CHEM101 OR ¹ CHEM104	Chemistry IA: Introductory Physical and General Chemistry Foundation Chemistry: Properties of Matter	¹ CHEM102 OR ¹ CHEM105	Chemistry 1B: Structure and Reactivity of Molecules for Life Foundation Chemistry: Reactions and Structures

Summer Session	
CHEM106*	Foundation Chemistry: Properties and Reactivity of Matter

*Only for students who have completed CHEM104 and CHEM105.

ELECTIVE SUBJECTS

Students doing this course must choose elective subjects in Autumn Session (1) and Spring Session (2) from the lists below.

Autumn Session (1)		Spring Session (2)
Choose subjects from the following:		Choose subjects from the following:
<i>If required</i> ² MATH151	General Mathematics 1A	Choose THREE (3) elective subjects from the Science Schedule of Subjects: see pages 21-22 OR If you are interested in pursuing electives studies in another discipline, choose THREE (3) elective subject from the UOW General Schedule of Subjects: see pages 23-26
<i>If MATH151 is not required:</i> Choose THREE (3) elective subjects from the Science Schedule of Subjects: see pages 21-22 OR If you are interested in pursuing electives studies in another discipline, choose THREE (3) elective subject from the UOW General Schedule of Subjects: see pages 23-26		

* Note: Students should meet the minimum mathematics requirement before enrolling in CHEM213 - Molecular Structure, Reactivity and Change and/or CHEM214 - Analytical and Environmental Chemistry II



First Year Enrolment Guide 2020

Faculty of Science, Medicine and Health

Course Name: Bachelor of Science
Course Code: 742
UAC Code: 757621
Major: Ecology and Conservation Biology

Wollongong

COMPULSORY SUBJECTS

Students doing this course must enrol in the following subjects. Elective subjects are shown in the next section.

Autumn Session (1)		Spring Session (2)	
SCII101	Global Challenges in Science	BIOL103	Molecules, Cells and Organisms
BIOL104	Evolution, Biodiversity and Environment		
BIOL105	Functional Biology of Animals and Plants		
¹ CHEM101	Chemistry IA: Introductory Physical and General Chemistry	¹ CHEM102	Chemistry 1B: Structure and Reactivity of Molecules for Life
OR		OR	
¹ CHEM104	Foundation Chemistry: Properties of Matter	¹ CHEM105	Foundation Chemistry: Reactions and Structures

ELECTIVE SUBJECTS

Students doing this course must choose elective subjects in Autumn Session (1) and Spring Session (2) from the lists below.

Autumn Session (1)		Spring Session (2)	
EESC105	Introductory Geospatial Analysis	SCIE103	Climate Change
		STAT252	Statistics for the Natural Sciences

Or 12 credit points of elective subjects from the General Elective Schedule, Science Schedule

Note: Students wishing to take MARE200 should note that either EESC102: Earth's Interconnected Spheres OR EESC103: Earth's Dynamic Surface is required as a prerequisite in addition to BIOL104 and CHEM102 or CHEM105.

**STAT252 is recommended to enable more research choices in second year.



First Year Enrolment Guide 2020

Faculty of Science, Medicine and Health

Course Name: Bachelor of Science

Course Code: 742

UAC Code: 757621

Major: Environment

Wollongong

COMPULSORY SUBJECTS

Students doing this course must enrol in the following subjects.

Autumn Session (1)		Spring Session (2)	
BIOL104	Evolution, Biodiversity and Environment	EESC103	Earth's Dynamic Surface
EESC101	Planet Earth	EESC102	Earth's Interconnected Spheres
SCII101	Global Challenges in Science	EESC105	Introductory Geospatial Analysis
¹ CHEM101	Chemistry IA: Introductory Physical and General Chemistry	¹ CHEM102	Chemistry 1B: Structure and Reactivity of Molecules for Life
OR		OR	
¹ CHEM104	Foundation Chemistry: Properties of Matter	¹ CHEM105	Foundation Chemistry: Reactions and Structures



First Year Enrolment Guide 2020

Faculty of Science, Medicine and Health

Course Name: Bachelor of Science
Course Code: 742
UAC Code: 757621
Major: Geology

Wollongong

COMPULSORY SUBJECTS

Students doing this course must enrol in the following subjects. Elective subjects are shown in the next section.

Autumn Session (1)		Spring Session (2)	
EESC101	Planet Earth	EESC102	Earth's Interconnected Spheres
EESC105	Introductory Geospatial Analysis	EESC103	Earth's Dynamic Surface
SCII101	Global Challenges in Science		

ELECTIVE SUBJECTS

Students doing this course must choose elective subjects in Autumn Session (1) and Spring Session (2) from the lists below.

Autumn Session (1)		Spring Session (2)	
Choose subjects from the following:		Choose subjects from the following:	
<i>If required:</i> ² MATH151	General Mathematics 1A	SCIE103	Climate Change
		GEOG123	Indigenous Geographies: Questioning Country
<i>If MATH151 is not required:</i>		Note: SCIE103 is strongly encouraged as an elective	
Choose TWO (2) elective subject from the Science Schedule of Subjects: see pages 21-22 OR If you are interested in pursuing electives studies in another discipline, choose TWO (2) elective subject from the UOW General Schedule of Subjects: see pages 23-26		Choose your remaining elective subjects from the Science Schedule of Subjects: see pages 21-22 OR If you are interested in pursuing electives studies in another discipline, choose your remaining elective subjects from the UOW General Schedule of Subjects: see pages 23-26	



First Year Enrolment Guide 2020

Faculty of Science, Medicine and Health

Course Name: Bachelor of Science
Course Code: 742
UAC Code: 757621
Major: Physical Geography

Wollongong

COMPULSORY SUBJECTS

Students doing this course must enrol in the following subjects. Elective subjects are shown in the next section.

Autumn Session (1)		Spring Session (2)	
EESC101	Planet Earth	EESC102	Earth's Interconnected Spheres
SCII101	Global Challenges in Science	EESC103	Earth's Dynamic Surface
EESC105	Introductory Geospatial Analysis		
MATH151	General Mathematics 1A		

ELECTIVE SUBJECTS

Students doing this course must choose elective subjects in Autumn Session (1) and Spring Session (2) from the lists below OR elective subjects from the General Elective Schedule, Science Schedule

Autumn Session (1)		Spring Session (2)	
		SCIE103	Climate Change
		GEOG122	Human Geography: Living in a Material World
		GEOG123	Indigenous Geographies: Questioning Country



UOW Science Schedule First Year Subjects 2020

Biological Sciences

Autumn Session (1)		Spring Session (2)	
BIOL104	Evolution, Biodiversity and Environment	BIOL103	Molecules, Cells and Organisms
BIOL105	Functional Biology of Animals and Plants	SCED101	Conceptions of Science

Chemistry

Autumn Session (1)		Spring Session (2)	
CHEM101	Chemistry 1A: Introductory Physical and General Chemistry	CHEM102	Chemistry 1B: Structure and Reactivity of Molecules for Life
CHEM103	Introductory Chemistry for Engineers	CHEM105	Foundation Chemistry: Reactions and Structures
CHEM104	Foundation Chemistry: Properties of Matter	CHEM106	Foundation Chemistry: Properties and Reactivity of Matter (Offered in Summer)
BNANO101	Introduction to Bionanotechnology	SCED101	Conceptions of Science

Earth and Environmental Sciences

Autumn Session (1)		Spring Session (2)	
EESC101	Planet Earth	EESC102	Earth's Interconnected Spheres
EESC103	Earth's Dynamic Surface	ARCH102	Big Questions in Archaeology
EESC105	Introductory Geospatial Analysis	EESC105	Introductory Geospatial Analysis



Medicine

Autumn Session (1)		Spring Session (2)	
MEDI100	Human Structure and Function	MEDI113	Physiology of Sport, Exercise and Physical Activity
MEDI111	Introduction to anatomy and Physiology 1	MEDI112	Introduction to Anatomy and Physiology II

General Science

Autumn Session (1)		Spring Session (2)	
GEOG121	Human Geography I: life in a globalising world	GEOG122	Human Geography II: Living in a Material World
MATH151	General Mathematics IA	MATH142	Essentials of Engineering Mathematics
MATH187	Mathematics 1: Algebra and Differential Calculus	MATH141	Foundations of Engineering Mathematics
MATH141	Foundations of Engineering Mathematics	MATH188	Mathematics 2: Series and Integral Calculus
PHYS141	Fundamentals of Physics A	PHYS142	Fundamentals of Physics B
SCIE103	Climate Change	PHYS155	Introduction to Biomedical Physics