

# Bachelor of Science [40165] – Chemistry majors

## TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2021

Changes have been made to the Bachelor of Science majors from 2021 onwards. Information regarding the changes to the below majors can be found in the following pages. If you are completing a double major please also refer to the transition arrangements for your second major.

Major	From 2021
Chemistry	This major will not be available to new students.
Environmental and Analytical Chemistry	This major will not be available to new students.
Chemistry of Advanced Materials	This major will not be available to new students. It has been replaced by the Chemistry (Advanced Materials) major.
Medicinal and Organic Chemistry	This major will not be available to new students. It has been replaced by the Chemistry (Medicinal and Organic) major.

### Frequently Asked Questions

#### ***Can I still complete my major?***

Yes, you will still be able to complete your major.

#### ***Does this change what I need to enrol in?***

The courses you need to enrol in may have changed, however, you will not be required to complete more than the 240 units required for your program.

#### ***Will this delay my graduation?***

No. As the changes do not increase the total number of courses you need to complete, these changes will not delay your graduation.

#### ***Can I complete the new Chemistry (Advanced Materials) major or the new Chemistry (Medicinal and Organic)?***

If you have completed CHEM1010 and/or CHEM1020 but have not yet completed any 2000 or 3000 level major courses, you can choose to complete one of the new majors. If you have completed any of your 2000 or 3000 level major courses and are interested in completing one of the new majors, you must contact your Academic Program Advisor at [programadvice@newcastle.edu.au](mailto:programadvice@newcastle.edu.au) who will advise if you have room left in your program to change majors. As you cannot exceed the 240 units for the Bachelor of Science, you may not be able to change your major.

#### ***Will this delay my graduation?***

No. As the changes do not increase the total number of courses you need to complete, these changes will not delay your graduation.

#### ***I have completed a course that is no longer offered or has had a name change. Does it still count?***

Yes, all courses successfully completed prior to 2021 will continue to count towards your program and major requirements. Please see the transition table information to check your remaining major requirements.

#### ***Can I still complete my double major?***

Yes, you can still complete your double major but you must ensure that you refer to transition information related to your second major for information on any changes occurring in your second major. Please email [programadvice@newcastle.edu.au](mailto:programadvice@newcastle.edu.au) before enrolment to check that the courses you plan to complete will make you eligible for the double major. It is not possible to complete a double major if you are completing a 120 unit major.

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TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2021

<b>Chemistry Major – 120 units Transition Arrangements</b>		
<b>Compulsory courses – 60 units</b>		
CHEM1010	Introductory Chemistry I	10 units
CHEM1020	Introductory Chemistry II	10 units
*CHEM2110	Applied Analytical Chemistry	10 units
*CHEM2210	Materials Chemistry	10 units
CHEM2310	Organic Chemistry	10 units
CHEM2410	Physical Chemistry	10 units
<b>Directed courses – Complete 60 units</b>		
CHEM3110	Instrumental Chemical Analysis	10 units
*CHEM3210	Functional Materials	10 units
CHEM3310	Molecular Organic Synthesis	10 units
CHEM3410	Energy and Structure	10 units
CHEM3550	Medicinal and Biological Chemistry	10 units
^CHEM3560	Materials Chemistry: Solids and Semiconductors	10 units
^CHEM3570	Spectroscopic Characterisation of Compounds	10 units
*CHEM3580	Colloids, Interfaces and Soft Matter	10 units
<b>Key</b>		
^ Course no longer offered, if you have already completed this course it still counts towards your major.		
* Prior to 2021 the following courses were named:- CHEM2110 Analytical Chemistry CHEM2210 Inorganic Chemistry CHEM3210 Chemistry of Nanostructured Materials CHEM3580 Polymers and Colloids		

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## Environmental and Analytical Chemistry Major – 80 units Transition Arrangements

### Compulsory courses – 30 units

Code	Title	Units
CHEM1010	Introductory Chemistry I	10 units
CHEM1020	Introductory Chemistry II	10 units
*CHEM2110	Applied Analytical Chemistry	10 units

### 2000 level Directed courses – Complete 20 units

^CHEM2201	Analytical and Medicinal Chemistry	10 units
+*CHEM2210	Materials Chemistry	10 units
+CHEM2310	Organic Chemistry	10 units
^CHEM2610	Environmental Chemistry I	10 units
GEOS2060	Soil Properties and Processes	10 units

### 3000 level Directed courses – Complete 30 units

CHEM3110	Instrumental Chemical Analysis	10 units
*CHEM3210	Functional Materials	10 units
^CHEM3570	Spectroscopic Characterisation of Compounds	10 units
*CHEM3580	Colloids, Interfaces and Soft Matter	10 units
ENVS3004	Ecotoxicology	10 units
ENVS3007	Environmental Remediation	10 units

### Key

^ Course no longer offered, if you have already completed this course it still counts towards your major.

+ Course added to major.

\* Prior to 2021 the following courses were named:-

CHEM2110 Analytical Chemistry

CHEM2210 Inorganic Chemistry

CHEM3210 Chemistry of Nanostructured Materials

CHEM3580 Polymers and Colloids

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## TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2021

Chemistry of Advanced Materials Major Pre-2021			Chemistry (Advanced Materials) 2021 onwards		
Compulsory courses – 50 units			Compulsory courses – 60 units		
CHEM1010	Introductory Chemistry I	10 units	CHEM1010	Introductory Chemistry I	10 units
CHEM1020	Introductory Chemistry II	10 units	CHEM1020	Introductory Chemistry II	10 units
*CHEM2110	Applied Analytical Chemistry	10 units	*CHEM2110	Applied Analytical Chemistry	10 units
*CHEM2210	Materials Chemistry	10 units	*CHEM2210	Materials Chemistry	10 units
CHEM2410	Physical Chemistry	10 units	CHEM2410	Physical Chemistry	10 units
			#CHEM3110	Instrumental Chemical Analysis	10 units
Directed courses – Complete 30 units			Directed courses – Complete 20 units		
#CHEM3110	Instrumental Chemical Analysis	10 units			
*CHEM3210	Functional Materials	10 units	*CHEM3210	Functional Materials	10 units
~CHEM3410	Energy and Structure	10 units	~CHEM3410	Energy and Structure	10 units
^CHEM3560	Materials Chemistry: Solids and Semiconductors	10 units			
*CHEM3580	Colloids, Interfaces and Soft Matter	10 units	*CHEM3580	Colloids, Interfaces and Soft Matter	10 units
<b>Key</b>					
~ Course changed from Compulsory to Directed.					
# Directed course to become Compulsory for students who commence in 2021 onwards.					
^ Course no longer offered, if you have already completed this course it still counts towards your major.					
* Prior to 2021 the following courses were named:- CHEM2110 Analytical Chemistry CHEM2210 Inorganic Chemistry CHEM3210 Chemistry of Nanostructured Materials CHEM3580 Polymers and Colloids					

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Medicinal and Organic Chemistry Major Pre-2021			Chemistry (Medicinal and Organic) Major 2021 onwards		
<b>Compulsory courses – 60 units</b>			<b>Compulsory courses – 60 units</b>		
CHEM1010	Introductory Chemistry I	10 units	CHEM1010	Introductory Chemistry I	10 units
CHEM1020	Introductory Chemistry II	10 units	CHEM1020	Introductory Chemistry II	10 units
			#*CHEM2110	Applied Analytical Chemistry	10 units
*CHEM2210	Materials Chemistry	10 units			
CHEM2310	Organic Chemistry	10 units	CHEM2310	Organic Chemistry	10 units
			+CHEM2410	Physical Chemistry	10 units
~CHEM3310	Molecular Organic Synthesis	10 units			
~CHEM3550	Medicinal and Biological Chemistry	10 units			
			#CHEM3110	Instrumental Chemical Analysis	10 units
<b>Directed courses – Complete 10 units</b>					
#CHEM2110	Applied Analytical Chemistry	10 units			
^CHEM2201	Analytical and Medicinal Chemistry	10 units			
<b>Directed courses – Complete 10 units</b>			<b>Directed courses – Complete 20 units</b>		
			+*CHEM3210	Functional Materials	10 units
			~CHEM3310	Molecular Organic Synthesis	10 units
			~CHEM3550	Medicinal and Biological Chemistry	10 units
#CHEM3110	Instrumental Chemical Analysis	10 units			
*CHEM3580	Colloids, Interfaces and Soft Matter	10 units			
<b>Key</b>					
~ Compulsory course to become Directed for students who commence in 2021 onwards.					
# Directed course to become Compulsory for students who commence in 2021 onwards.					
^ Course no longer offered, if you have already completed this course it still counts towards your major.					
+ Course added to the major.					
* Prior to 2021 the following courses were named:- CHEM2110 Analytical Chemistry CHEM2210 Inorganic Chemistry CHEM3210 Chemistry of Nanostructured Materials CHEM3580 Polymers and Colloids					