

# SECONDARY CHEMISTRY EDUCATION, MAJOR (0349)

Effective from: Spring 2024

Western Sydney University Major Code: 0349

Available to students in other Western Sydney University programs?

No

The Secondary Chemistry Education Major will provide students with 60 credit points of Chemistry discipline knowledge and 20 credit points of Chemistry pedagogy and curriculum knowledge. Together with completion of subjects in the Bachelor of Education (Secondary), this Major will enable students to meet requirements to graduate from the Bachelor of Education (Secondary) with the Chemistry teaching area. The Secondary Chemistry Education Major will span the Foundation and Development phases of the Bachelor of Education (Secondary), enabling students to develop strong pedagogical content knowledge, an understanding of evidence-based pedagogies, and skills in using assessment and feedback to guide and enhance student learning.

## Location

Campus	Mode	Advice
Parramatta Campus - Victoria road	Internal	SecondaryEnquiries@westernsydney.edu.au

## Major Structure

- Please note: Subjects that are part of the majors are subject to availability. Students may need to travel to different campuses to complete some of these subjects.**

Higher level chemistry subjects have specific pre-requisites, please plan your program progression to meet these pre-requisites. Seek program advice if needed.

Students must successfully complete 80 credit points as follows.

### Start-year intake

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
CHEM 1008	Introductory Chemistry	10
<b>Credit Points</b>		<b>10</b>
<b>Spring session</b>		
CHEM 1012	Essential Chemistry	10
<b>Credit Points</b>		<b>10</b>
<b>Year 2</b>		
<b>Autumn session</b>		
Select one Alternate Subject (from the pool of subjects listed below)		10
<b>Credit Points</b>		<b>10</b>
<b>Spring session</b>		
Select one Alternate Subject (from the pool of subjects listed below)		10
<b>Credit Points</b>		<b>10</b>
<b>Year 3</b>		
<b>Autumn session</b>		
Select one level 3 Alternate Subject (from the pool of subjects listed below)		10
<b>Credit Points</b>		<b>10</b>

<b>Spring session</b>		
NATS 3044	Complex Case Studies in Science	10
TEAC 3058	Science Curriculum 7-10	10
<b>Credit Points</b>		<b>20</b>

<b>Year 4</b>		
<b>Autumn session</b>		
TEAC 4026	Chemistry Curriculum 11-12	10
<b>Credit Points</b>		<b>10</b>
<b>Total Credit Points</b>		<b>80</b>

### Mid-year intake

Course	Title	Credit Points
<b>Year 1</b>		
<b>Spring session</b>		
CHEM 1012	Essential Chemistry	10
<b>Credit Points</b>		<b>10</b>
<b>Autumn session</b>		
CHEM 1008	Introductory Chemistry	10
<b>Credit Points</b>		<b>10</b>

<b>Year 2</b>		
<b>Spring session</b>		
Select one Alternate Subject (from the pool of subjects listed below)		10
<b>Credit Points</b>		<b>10</b>
<b>Autumn session</b>		
Select one Alternate Subject (from the pool of subjects listed below)		10
<b>Credit Points</b>		<b>10</b>

<b>Year 3</b>		
<b>Spring session</b>		
NATS 3044	Complex Case Studies in Science	10
TEAC 3058	Science Curriculum 7-10	10
<b>Credit Points</b>		<b>20</b>
<b>Autumn session</b>		
Select one level 3 Alternate Subject (from the pool of subjects listed below)		10
<b>Credit Points</b>		<b>10</b>

<b>Year 4</b>		
<b>Autumn session</b>		
TEAC 4026	Chemistry Curriculum 11-12	10
<b>Credit Points</b>		<b>10</b>
<b>Total Credit Points</b>		<b>80</b>

### Alternate Subjects

Students complete three of the following subjects, with at least one subject at Level 3.

Subject	Title	Credit Points
<b>Level 2 Subjects</b>		
CHEM 2001	Analytical Chemistry	10
CHEM 2006	Inorganic Chemistry	10
CHEM 2008	Organic Chemistry	10
CHEM 2010	Physical Chemistry	10
<b>Level 3 Subjects</b>		
CHEM 3001	Advanced Analytical Chemistry	10

CHEM 3003	Advanced Inorganic Chemistry	10
CHEM 3004	Advanced Organic Chemistry	10
CHEM 3005	Advanced Physical Chemistry	10

## Related Programs

Bachelor of Education (Secondary) (1939) (<https://hbook.westernsydney.edu.au/programs/bachelor-education-secondary/>)