

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	Dr Nathan Berger (https://directory.westernsydney.edu.au/search/name/nathan%20berger/)

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
Year 1		
Autumn session		
CHEM 1008	Introductory Chemistry	10
Credit Points		10
Spring session		
CHEM 1012	Essential Chemistry	10
Credit Points		10
Year 2		
Autumn session		
Select one Alternate Subject (from the pool of subjects listed below)		10
Credit Points		10
Spring session		
Select one Alternate Subject (from the pool of subjects listed below)		10
Credit Points		10

Year 3

Autumn session

Select one level 3 Alternate Subject (from the pool of subjects listed below)

Credit Points 10

Spring session

NATS 3044 Complex Case Studies in Science 10

TEAC 3058 Science Curriculum 7-10 10

Credit Points 20

Year 4

Autumn session

TEAC 4026 Chemistry Curriculum 11-12 10

Credit Points 10

Total Credit Points 80

Mid-year intake

Course	Title	Credit Points
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Year 1

Spring session

CHEM 1012 Essential Chemistry 10

Credit Points 10

Autumn session

CHEM 1008 Introductory Chemistry 10

Credit Points 10

Year 2

Spring session

Select one Alternate Subject (from the pool of subjects listed below)

Credit Points 10

Autumn session

Select one Alternate Subject (from the pool of subjects listed below)

Credit Points 10

Year 3

Spring session

NATS 3044 Complex Case Studies in Science 10

TEAC 3058 Science Curriculum 7-10 10

Credit Points 20

Autumn session

Select one level 3 Alternate Subject (from the pool of subjects listed below)

Credit Points 10

Year 4

Autumn session

TEAC 4026 Chemistry Curriculum 11-12 10

Credit Points 10

Total Credit Points 80

Alternate Subjects

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

Subject	Title	Credit Points
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Level 2 Subjects

CHEM 2001 Analytical Chemistry 10

CHEM 2006	Inorganic Chemistry	10
CHEM 2008	Organic Chemistry	10
CHEM 2010	Physical Chemistry	10
Level 3 Subjects		
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/>)