

SECONDARY MATHEMATICS EDUCATION, MAJOR (0350)

Effective from: Spring 2024

Western Sydney University Major Code: 0350

Available to students in other Western Sydney University programs?
No

The Secondary Mathematics Education Major provides students with 60 credit points of Mathematics discipline knowledge and 20 credit points of Mathematics pedagogy and curriculum knowledge. Together with completion of subjects in the Bachelor of Education (Secondary), this Major enables students to graduate from the Bachelor of Education (Secondary) with the Mathematics teaching area. The Secondary Mathematics 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 |
| Penrith Campus | 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 mathematics 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 | | |
| MATH 1006 | Discrete Mathematics | 10 |
| Credit Points | | 10 |
| Spring session | | |
| MATH 1014 | Mathematics 1A | 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 |
| Select one Alternate subject (Level 3) (from the pool of subjects listed below) | | 10 |
| Credit Points | | 20 |

Year 3

Autumn session

| | |
|---------------------------------------------------------------------------------|----|
| Select one Alternate subject (Level 3) (from the pool of subjects listed below) | 10 |
|---------------------------------------------------------------------------------|----|

Credit Points **10**

Spring session

| | | |
|-----------|-----------------------------|----|
| TEAC 3056 | Mathematics Curriculum 7-10 | 10 |
|-----------|-----------------------------|----|

Credit Points **10**

Year 4

Autumn session

| | | |
|-----------|------------------------------|----|
| TEAC 4022 | Mathematics Curriculum 11-12 | 10 |
|-----------|------------------------------|----|

Credit Points **10**

Total Credit Points **80**

Mid-year intake

| Course | Title | Credit Points |
|--------|-------|---------------|
|--------|-------|---------------|

Year 1

Spring session

| | | |
|-----------|----------------|----|
| MATH 1014 | Mathematics 1A | 10 |
|-----------|----------------|----|

Credit Points **10**

Autumn session

| | | |
|-----------|----------------------|----|
| MATH 1006 | Discrete Mathematics | 10 |
|-----------|----------------------|----|

Credit Points **10**

Year 2

Spring session

| | |
|------------------------------------------------------------------------|----|
| Select two Alternate subjects (from the pool of subjects listed below) | 20 |
|------------------------------------------------------------------------|----|

Credit Points **20**

Autumn session

| | |
|---------------------------------------------------------------------------------|----|
| Select one Alternate subject (Level 3) (from the pool of subjects listed below) | 10 |
|---------------------------------------------------------------------------------|----|

Credit Points **10**

Year 3

Spring session

| | | |
|-----------|-----------------------------|----|
| TEAC 3056 | Mathematics Curriculum 7-10 | 10 |
|-----------|-----------------------------|----|

Credit Points **10**

Autumn session

| | |
|---------------------------------------------------------------------------------|----|
| Select one Alternate subject (Level 3) (from the pool of subjects listed below) | 10 |
|---------------------------------------------------------------------------------|----|

Credit Points **10**

Year 4

Autumn session

| | | |
|-----------|------------------------------|----|
| TEAC 4022 | Mathematics Curriculum 11-12 | 10 |
|-----------|------------------------------|----|

Credit Points **10**

Total Credit Points **80**

Alternate Subjects

Students complete four of the following subjects, with at least two subjects at Level 3.

| Subject | Title | Credit Points |
|---------|-------|---------------|
|---------|-------|---------------|

Level 1 Subjects

| | | |
|-----------|----------------|----|
| MATH 1015 | Mathematics 1B | 10 |
|-----------|----------------|----|

Level 2 Subjects

| | | |
|-----------|-------------------|----|
| MATH 2001 | Advanced Calculus | 10 |
|-----------|-------------------|----|

| | | |
|-----------|------------------------|----|
| MATH 2003 | Differential Equations | 10 |
| MATH 2010 | Linear Algebra | 10 |

Level 3 Subjects

| | | |
|-----------|------------------------|----|
| MATH 3003 | Analysis | 10 |
| MATH 3006 | Mathematical Modelling | 10 |
| MATH 3012 | Combinatorics | 10 |
| MATH 3015 | Groups and Symmetry | 10 |
| MATH 3013 | Fields and Equations | 10 |

Related Programs

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