

STEM, TESTAMUR MAJOR (T135)

Western Sydney University Major Code: T135

Available to students in other Western Sydney University programs?

No

The Master of Education, STEM testamur major is designed for teachers seeking to enhance their knowledge in science, technology, engineering and mathematics, and their capacity to plan, deliver and evaluate effectively integrated STEM learning experiences. Students will develop specialised skills to enable them to critically analyse, reflect on and synthesise multi-disciplinary approaches to STEM teaching, drawing on appropriate theoretical knowledge, allowing them to plan and deliver exemplary practice in STEM teaching. Students will also gain the skills required to be STEM leaders in schools, developing, enacting and evaluating interdisciplinary curriculum reform for the future.

Location

| Campus | Attendance | Mode | Advice |
|--------|------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Online | | Online | Course Advice (https://hbook.westernsydney.edu.au Mailto:PGSpecialistACA@westernsydney.edu.au) |

Major Structure

Students will select from the major subjects that are on offer in any given semester. Major subjects can be studied in any order.

Students must successfully complete 40 credit points as listed below.

| Subject | Title | Credit Points |
|-----------------------------|-------------------------------------------------------------------|---------------|
| TEAC 7121 | STEM foundations | 10 |
| TEAC 7018 | Computational Thinking across the STEM Curriculum | 10 |
| Select two of the following | | 20 |
| TEAC 7065 | Leading Mathematics in the Primary School | |
| TEAC 7011 | Assessment and Intervention for Mathematics and Numeracy Learning | |
| TEAC 7074 | Mathematics for Contemporary Learners | |
| TEAC 7002 | Addressing Diversity in Mathematics Teaching and Learning | |
| TEAC 7122 | Science for Contemporary Learners | |
| TEAC 7012 | Assessment and Intervention for Science Learning | |
| TEAC 7120 | STEM Pedagogies in Practice | |
| TEAC 7152 | Applied Robotics and Programming in Secondary STEM Education | |
| TEAC 7151 | Applied Mathematics and Science in Secondary STEM Education | |
| Total Credit Points | | 40 |

Master of Education (1911) (<https://hbook.westernsydney.edu.au/programs/master-education/>)