Bachelor of Science (Mathematical Science)

3679 – Bachelor of Science (Mathematical Science)

A Bachelor of Science (Mathematical Science) provides you with a strong background in key analytical techniques that have contemporary applications such as the treatment and interpretation of data and the modelling of real-world problems such as global warming. You will develop skills that allow you to model and solve real world problems using mathematical techniques and have the opportunity to specialise in mathematics, statistics or a combination of both. This will provide you with a wide range of career options in commercial and government institutions, which require highly-skilled problem-solvers.

Entry via: HSC, TAFE, UWSC, private colleges, prior study, International

CRICOS Code: 041154J

A Career in Mathematics

Mathematics can open many doors in business, industry, finance, government, teaching or research. As a graduate in mathematics, you can look forward to career opportunities such as finance/business analyst, commercial mathematician, data analyst, retail analyst, performance analyst, biostatistician, trading analyst, sports statistician, and risk specialist, to name just a few.

Student Testimonial

‘My experience of the Bachelor of Science (Mathematical Science) at UWS has been a rewarding one. During the degree, we were not only learning the concepts, theories and methodologies but also we had the opportunity to work on research projects under the supervision of some of the brightest minds of the country. That is why after completing my undergraduate degree, I decided to continue with honours at UWS, to pursue a career in research.’

Tanzila Chowdhury

Course Structure

Year 1

Session 1 Autumn
- 300672.2 Mathematics 1A
- 300811.1 Scientific Literacy
- 200025.2 Discrete Mathematics
  Choose one of:
  - 300802.1 Biodiversity
  - 300800.2 Essential Chemistry 1
  - 300828.1 Physics 1
  - 300822.1 Introduction to Earth Science

Session 2 Spring
- 300134.2 Introduction to Information Technology
- 300673.2 Mathematics 1B
- 200263.4 Biometry
- And one elective

Year 2

Session 3 Autumn
- 200027.2 Linear Algebra
- 200028.3 Advanced Calculus
- 300580.2 Programming Fundamentals
- And one elective

Session 4 Spring
- 200030.3 Differential Equations
- 200033.5 Applied Statistics
  Choose one science foundation core unit:
  - 300816.1 Cell Biology
  - 300803.1 Essential Chemistry 2
  - 300829.1 Physics 2
  - 300809.1 Introductory Geochemistry
- And one elective

Year 3

Session 5 Autumn
- 200193.2 Abstract Algebra
- 200037.4 Regression Analysis & Experimental Design
- 200023.3 Analysis
- And one elective

Session 6 Spring
- 200045.3 Quantitative Project
- 200038.3 Time Series and Forecasting
- 200022.3 Mathematical Modelling
- And one elective