



Mathematical Methods

What is Mathematical Methods?

The mathematics in Mathematical Methods is developed to facilitate planning. Students are asked to examine what has happened and what is happening in the world around them, and to consider their findings. This empowers them to describe their world and changes in it. As a result, students see the relevance of the mathematics inherent in planning decisive courses of action to resolve issues.

Why study Mathematical Methods?

Mathematical Methods examines what has happened and what is happening in the world by looking at mathematics as a creative human response to the external environment through the study of contemporary situations and case studies.

Course content of Mathematical Methods

Students study four topics:

- Topic 1: Working with Statistics
- Topic 2: Algebraic Models from Data - Working from Observation
- Topic 3: Calculus - Describing Change
- Topic 4: Linear Models - Managing Resources

Assessment Components

Assessment in Mathematical Methods consists of the following components, weighted as shown:

School Based Component: 70%

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|---------------|-----|
| • Topic Tests | 45% |
| • Folio Tasks | 25% |

Externally Moderated Component: 30%

- External Examination

Learning Requirements of the Course

At the end of the program in Stage 2 Mathematical Methods, students should be able to:

- understand fundamental mathematical concepts, demonstrate mathematical skills, and apply routine mathematical procedures
- plan courses of action after using mathematics to analyse data and other information elicited from the study of situations taken from social, scientific, economic, or historical contexts
- think mathematically by posing questions, making and testing conjectures, and looking for reasons that explain the results
- make informed and critical use of electronic technology to provide numerical results and graphical representations
- communicate mathematically and present mathematical information in a variety of ways
- work both individually and cooperatively in planning, organising, and carrying out mathematical activities.

Mathematical Methods continued

Future Pathways in Mathematical Methods

- Accounting
- Management
- Computer Studies
- Health Sciences
- Business
- Commerce
- Psychology

Required Texts for Mathematical Methods

- Mathematics For Yr 12: Mathematical Methods, with CD, Haese
- Mathematical Methods Revision Guide (current edition)
- Calculator: Casio Graphic FX-9860GAU PLUS

What are the prerequisites?

- C promotion grade in Year 11 Mathematical Studies or Specialist
- B promotion grade in Year 11 Mathematical Methods.



TRINITY COLLEGE
Senior

Contact Details

For more information about studying Year 12 at Trinity College Senior, please contact the Head of Year 12 on 8523 8705 or visit: www.trinity.sa.edu.au/curriculum/index.htm

Further Information

More information about SACE may be obtained from the SACE Board of South Australia webpage at: www.sace.sa.edu.au