HSC Mathematics - Advanced Exam Preparation Course

Training for Outreach and Access, University of Sydney

This HSC Mathematics Advanced Exam Preparation course offers a wonderful opportunity to hone examination skills in order to maximise chances of success.

This workshop will deal with identifying strategies for solving examination style questions from the Mathematics Advanced course. This will include reviewing relevant questions from past HSC examinations (Mathematics course) as well as examination papers from other educational jurisdictions. Students will practise interpreting questions and planning responses. The presenter will provide valuable feedback and will also offer advice on examination technique and how to maximise exam results.

Students will have the opportunity to ask topic specific questions and to receive individual assistance and advice.

Outcomes

By the end of this course, you should be able to:

- critically evaluate your own and others’ solutions to improve the quality of responses in assessment tasks
- interpret mathematical language of examination questions to better understand the steps for a quality solutions
- identify the relationships between key areas of mathematics
- manage time effectively during examinations.

Content

The questions presented will be from the Mathematics Advanced HSC course.

The Mathematics Advanced HSC course consists of the following syllabus references:

- MA-F2 Graphing Techniques
- MA-F3 Trigonometric Functions and Graphs
- MA-C2 Differential Calculus
- MA-C3 The Second Derivative
- MA-C4 Integral Calculus
- MA-M1 Modelling Financial Situations
- MA-S2 Descriptive Statistics and Bivariate Data Analysis
- MA-S3 Random Variables

Intended audience

Year 12 students or accelerated Year 11 students who have already completed the previous topics.

Delivery mode

Online via the platform Zoom
Delivery style

Delivered as a one-day activity-based workshop where we will explore and apply mathematical knowledge and skills in a combination of lectures, tutorials and problem-solving sessions. Practice exercises are carefully graded and you will receive immediate feedback.

Materials

You will receive electronic copies of the following:

- a course booklet including theory and worked examples
- examination and study advice and tips
- relevant past examination questions from the previous mathematics course as well as from other educational jurisdictions, with sample answers.

Course evaluation

Via an email on-line student questionnaire.