

ECON90053 Mathematics for Economists

Credit Points:	12.50												
Level:	9 (Graduate/Postgraduate)												
Dates & Locations:	This subject is not offered in 2013.												
Time Commitment:	Contact Hours: One 90 minute lecture and one 90 minute workshop per week Total Time Commitment: Not available												
Prerequisites:	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ECON40001 Advanced Microeconomics</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table> <p>OR</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ECON90002 Microeconomics</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	ECON40001 Advanced Microeconomics	Not offered 2013	12.50	Subject	Study Period Commencement:	Credit Points:	ECON90002 Microeconomics	Not offered 2013	12.50
Subject	Study Period Commencement:	Credit Points:											
ECON40001 Advanced Microeconomics	Not offered 2013	12.50											
Subject	Study Period Commencement:	Credit Points:											
ECON90002 Microeconomics	Not offered 2013	12.50											
Corequisites:	None												
Recommended Background Knowledge:	No background knowledge will be assumed. Students with some prior exposure to real analysis will find that this subject enriches what they have learnt.												
Non Allowed Subjects:	None												
Core Participation Requirements:	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements for this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/												
Contact:	sdanilki@unimelb.edu.au (mailto:sdanilki@unimelb.edu.au)												
Subject Overview:	This subject introduces students to mathematical concepts and techniques that are used in advanced economics.												
Objectives:	<p>On successful completion of this subject students should be able to understand the definitions and fundamental concepts of linear algebra, vector calculus, and real analysis as they relate to studies in advanced economics. They should be able to use these tools to:</p> <ul style="list-style-type: none"> # prove relevant optimisation theorems; # set up and solve optimal control problems; # set up and solve dynamic programming problems. 												
Assessment:	Assignments consisting of problems and exercises at regular intervals during the semester (80%) and a two-hour final examination worth 20%.												
Prescribed Texts:	You will be advised of prescribed texts by your lecturer.												
Breadth Options:	This subject is not available as a breadth subject.												
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees												

Generic Skills:

High level of development:

- # problem solving;
- # interpretation and analysis;
- # critical thinking.

Moderate level of development:

- # oral communication;
- # written communication;
- # collaborative learning;
- # team work;
- # application of theory to practice;
- # receptiveness to alternative ideas.

Some level of development:

- # synthesis of data and other information;
- # evaluation of data and other information;
- # use of computer software;
- # accessing data and other information from a range of sources.