ECOM90004 Time Series Analysis and Forecasting

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: Three hours of classes per week plus three hours of seminars during the semester Total Time Commitment: Estimated total time commitment of 120 hours per semester
Prerequisites:	**316-636 Econometrics (/view/2010/316-636)** or **316-635 Basic Econometrics (/view/2010/316-635)**
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	**316-350 Time Series Analysis and Forecasting (/view/2010/316-350)**
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/
Coordinator:	Assoc Prof K Shields
Contact:	Graduate School of Business and Economics Student Centre Level 4, 198 Berkeley Street Telephone: +61 3 8344 1670 Online Enquiries: **http://www.gsbe.unimelb.edu.au/future/unity_forms/contact.html (http://www.gsbe.unimelb.edu.au/future/unity_forms/contact.html/)** Web: **www.melbournegsm.unimelb.edu.au (http://www.gsbe.unimelb.edu.au/)**
Subject Overview:	Normally topics will include current techniques used in forecasting in finance, accounting and economics such as regression models, Box-Jenkins, ARIMA models, vector autoregression, causality analysis, cointegration and forecast evaluation, ARCH models. The computer software used is EVIEWS.
Objectives:	On successful completion of this subject students should be able to: # Apply the Box-Jenkins methodology for identifying stationary and non-stationary univariate forecasting models, # Apply VAR/VECM models to analyse relationships between economic and financial time series, # Apply ARCH models to analyse and forecast the volatility of financial time series.
Assessment:	2-hour end-of-semester examination (60%)Empirical exercises totalling not more than 6000 words (40%)
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:	On successful completion of this subject, students should have improved the following generic skills: # Evaluation of ideas, views and evidence

	# Synthesis of ideas, views and evidence # Strategic thinking # Critical thinking # Accessing economic and other information # Summary and interpretation of information # Application of Windows software # Statistical reasoning # Problem solving skills # Written communication
Notes:	Students may not gain credit for both 316-638 Time Series Analysis and Forecasting and 316-350 Time Series Analysis and Forecasting.
Related Course(s):	Master of Commerce - Finance