

ECOM20001 Introductory Econometrics

Credit Points:	12.5												
Level:	2 (Undergraduate)												
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus.												
Time Commitment:	Contact Hours: Two 1-hour lectures and a 1-hour tutorial per week Total Time Commitment: 170 hours												
Prerequisites:	One of the following: <table border="1" data-bbox="387 600 1485 864"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ECON10005 Quantitative Methods 1</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MAST10010 Data Analysis 1</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>MAST10011 Experimental Design and Data Analysis</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	ECON10005 Quantitative Methods 1	Semester 1, Semester 2	12.50	MAST10010 Data Analysis 1	Semester 2	12.50	MAST10011 Experimental Design and Data Analysis	Semester 1, Semester 2	12.50
Subject	Study Period Commencement:	Credit Points:											
ECON10005 Quantitative Methods 1	Semester 1, Semester 2	12.50											
MAST10010 Data Analysis 1	Semester 2	12.50											
MAST10011 Experimental Design and Data Analysis	Semester 1, Semester 2	12.50											
Corequisites:	None												
Recommended Background Knowledge:	Please refer to Prerequisites and Corequisites.												
Non Allowed Subjects:	Students may not gain credit for both ECOM20001 Introductory Econometrics (../view/current/ecom20001) and ECOM30001 Basic Econometrics (../view/current/ecom30001).												
Core Participation Requirements:	<p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p>												
Coordinator:	Assoc Prof Jenny Lye, Assoc Prof Joe Hirschberg												
Contact:	Semester 1: j.hirschberg@unimelb.edu.au (mailto:j.hirschberg@unimelb.edu.au) Semester 2: jnlye@unimelb.edu.au (mailto:jnlye@unimelb.edu.au)												
Subject Overview:	Topics include review of statistics; F and X 2 distributions; review of simple linear regression model; multiple linear regression model; hypothesis testing, forecasting, diagnostics with regression models (including heteroskedasticity, serial correlation and model specification). Examples drawn from economics, finance, accounting, marketing and management will be illustrated using EViews.												
Learning Outcomes:	<ul style="list-style-type: none"> # Apply the least-squares method of estimation to the context of the simple linear regression model. # Apply the principles of the least-squares method of estimation and inference to the multiple linear regression model. # Apply EViews to estimate, test hypotheses and forecast in the context of the linear regression model. 												

	# Explain various problems that arise from applying the linear regression model to data, including multicollinearity, specification errors, heteroskedasticity, nonstationarity and autocorrelation.
Assessment:	A 2-hour end-of-semester examination (65% or 75%), an optional mid-semester multiple choice test in week 5 (0% or 10%), Assignment 1 (10%) due week 8: 10 pages A4, Assignment 2 (10%) due week 12: 10 pages A4, and tutorial attendance and participation (5%). The final mark will be calculated by weighting the end-of-semester exam at 65% and the mid-semester test at 10% OR by weighting the end-of-semester exam at 75% and the mid-semester test at 0%, whichever gives the higher mark.
Prescribed Texts:	You will be advised of prescribed texts by your lecturer.
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2015/B-ARTS) # Bachelor of Biomedicine (https://handbook.unimelb.edu.au/view/2015/B-BMED) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2015/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2015/B-MUS) # Bachelor of Science (https://handbook.unimelb.edu.au/view/2015/B-SCI) # Bachelor of Engineering (https://handbook.unimelb.edu.au/view/2015/B-ENG) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"> # High level of development: written communication; collaborative learning; problem solving; team work; statistical reasoning; application of theory to practice; interpretation and analysis; critical thinking; synthesis of data and other information; use of computer software. # Moderate level of development: oral communication; evaluation of data and other information; accessing data and other information from a range of sources; receptiveness to alternative ideas.
Related Majors/Minors/Specialisations:	Economics
Related Breadth Track(s):	Quantitative Methods in Economics Economics &&& Finance