Aston Business School
Birmingham

BSM937 Applied Econometrics

Academic Year 2012/13

Number of Aston Credits: 15

Number of ECTS Credits: 7.5

Staff Member Responsible for the Module:

Dr Jun Du
Economics and Strategy Group
South Wing, Room 905B, Ext:3340
Email:j.du@aston.ac.uk
Availability: Please see office hours and how to book an appointment in the Blackboard Module area
Or contact the Economics and Strategy Group Administrator
Lynne Woolley, SW907B Extension 3038
Email: l.woolley@aston.ac.uk

Pre-requisites for the module:

Basic quantitative skills such as Mathematics and Statistics

Mode of Attendance:

On Campus

Module Objectives and Learning Outcomes:

The aims of the module are to provide an introduction to the key econometric techniques that commonly used in the quantitative analysis of Economics, Business and management.

On successful completion of this module students will be able to:

- Understand important econometric concepts and intuitions of some key econometric theory
- Generate and test hypotheses, use alternative statistical models and draw inferences in applied quantitative analyses
- Be familiar with data management skills and analysis tools using Stata
- Carry out an econometric analysis independently and write an project report

Aston Business School
Birmingham

Module Content:

Fundamentals

Topic 1: Data management, Conducting a quantitative research project, and Regression basics

Topic 2: Simple Regression and OLS: concept, solution and property in practice

Topic 3: Multiple Regressions: solution, examples and issues

Further Topics

Topic 4: Freeing Up the Classical Assumptions: Heteroskedasticity, multicollearity, endogeneity and IV approach

Topic 5: Selected Topics: Panel data models, Limited independent variable modelling

Coursework Presentation and Revision

Examination

Corporate Connections:

The module aims to teach students important tools of quantitative analysis which is essential for corporate management. The module includes material relevant to business through examples and cases studies employed in both lectures and computer lab sessions.

International Dimensions:

This module addresses international dimensions through direct examples in both lectures and computer sessions.

Contribution of Research:

The module allows the student to learn about a variety of research techniques like the use of secondary sources and the analysis of secondary data. It allows student to learn basic econometric theory and skills that are essential for successive research in the area of economics and international business studies.

Aston Business School
Birmingham

Method of Teaching:

Combination of lectures using ample practical examples, weekly hands-on exercises, individual preparation of specific topics and case studies on which each makes class presentations and group workshop, revision tutorials and introduction to websites. This combination of teaching and learning methods is used to develop the knowledge and demonstrate and reinforce its relevance and applicability.

Method of Assessment and Feedback:

A course project (50%) of less than 4000 words due TBA; 2 hour closed book examination (50%) in Week 10.

Learning Hours:

Contact hours (including computer lab session)	30
Directed learning (including exercises and course preparation)	34
Private study/group work	34
Assessment	2
Total	**100**

The following essential and recommended readings are subject to change. Students should not therefore purchase textbooks prior to commencing their course. If students wish to undertake background reading before starting the course, many of the chapters/readings are available in electronic form via on-line library catalogues and other resources.

Essential Readings: