

# BS2220 Introduction to Econometrics

**Module Number:** BS2220  
**Module Title:** Introduction to Econometrics  
**Number of Aston Credits:** 10  
**Total Number of ECTS Credits:** 5  
(European Credit Transfer)

## Staff Member Responsible for the Module:

**Dr Jun Du**  
Economics & Strategy Group

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Availability: Please see blackboard module area,  
or Group administrator, Lynne Woolley, SW907, Extension 3038

## Other Staff Contributing to the Module:

TBA

## Pre-Requisite(s) for the Module:

BN1105 Quantitative Techniques  
BN1106 Business Decision Analysis

## Module Learning Outcomes:

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

Understand important statistical and econometric concepts.

Command basic multiple linear regression and Ordinary Least Squares (OLS) estimation procedure. Generate and test hypotheses.

Understand basic assumptions of the OLS, test their validity in practical situations, and deal with their violations.

Understand the features of different types of economic data, and command some basic tools and techniques of econometric analysis.

Be familiar with basic data management, several statistical and econometric analyzing tools and techniques using statistical package *Stata* and techniques.

## Module Content:

Unit 1 Overview of econometrics

Unit 2 Regression (1) – the Idea

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Unit 3	Regression (2) – the econometrics
Unit 4	Multiple regression model
Unit 5	Violations of CLR assumptions
Unit 6	Selected topics
Unit 8	Revision

### **International Dimensions:**

This module contents are universally applied in international dimensions through direct examples in both lectures and case study sessions.

### **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 tutorial sessions.

### **Links to Research:**

This module provides essential tools to any quantitative research in the field of economics, business and management.

### **Learning and Teaching Rationale and Methods:**

Lectures, tutorials, computer laboratory sessions, group project interactive learning.

### **Contact and directed learning**

Lectures	22 hours
Computer classes/tutorials/other session	8 hours
Directed Learning	20 hours
Private Study/Group Work	48 hours
Examination	2 hours
<b>Total</b>	<b>100 hours</b>

### **Ethical Approval:**

This module does not require any primary research and no ethical approval will be necessary.

## **BS2220 Introduction to Econometrics**

### **Assessment and Feedback Rationale and Methods:**

Assessment is via a closed book examination (60%), and a project (30% report and 10% survey).

The project requires two tasks being independently carried out. The first task (10%) is to undertake an online survey BS2220 Survey on the Blackboard and submit it successfully no later than the 20<sup>th</sup> of October 2011. The second task is to conduct a piece of econometric analysis, and write a report not exceeding 3,000 words everything exclusive, due in the 9<sup>th</sup> of December 2011. This assessment package is designed to test students' understanding, application, and interpretation of econometric concepts, models and techniques. The report of the project is worth 30% of the module credit and will be marked with individual feedback will be returned within four weeks.

**Please note that all detailed information of module assessments and marking criteria are explained in "BS2220 Module Assessment Policy" document that will be in the Blackboard prior to the beginning of the term.**

Other methods of feedback include physical and electronic interactions between lecturer, tutor and students in between lectures, classes and other occasions during the term, monthly student surveys and office hour meetings throughout the course.