AIMS
The aims of this course are to introduce the basic tools of quantitative analysis used in both economics and finance. The course will cover the linear regression model and non-linear regression functions. One of the main focuses will be on the many potential sources of bias and inconsistency in Ordinary Least Squares (OLS) estimation. Applications in economics and finance will serve to illustrate the theoretical concepts.

LEARNING OUTCOMES
The objectives are that students will be able to use the general linear model with competence and confidence to analyse economic relationships in the applied work for their dissertation and in future research investigations. They will be familiar with methods for testing hypotheses by examining restrictions placed on models by econometric theory and aware of the advantages and limitations of the procedures and methods they apply.

COURSE DELIVERY
One 2-hour lecture and one 1-hour seminar class every week.

ASSESSMENT
Formative assessment:
• Weekly problem sets and classes provide feedback.

Summative assessment:
• One one-hour unseen written mid-term exam to be taken after the reading week in the autumn term contributing to 25% of the final mark.
• One 3-hour unseen written exam taken in the Summer Term contributing to 75% of the final mark.

Deadlines and dates for tests will be confirmed in the Departmental Student Handbook and on the website.

READING
Textbook references for this course:

WEEKLY TIMETABLE
1-4. Linear Regression with One Regressor  
S&W, chs. 4-5 including appendices;  

5-7. Linear Regression with Multiple Regressors  
S&W, chs. 6-8 including appendices;  

8-10. Non-linear Regression Functions, Discrete Choice and Panel Data (time permitting)  
S&W, ch. 10-11;