Mathematics for Economists

Module Code: ECO00013I  Credits: 10  Year: 2  Terms: 2
Contact Hours: 18 Lectures, 6 Tutorials (24 contact hours)
Module Organiser: Professor Z Yang

Overview:
This module aims to cover the essentials of matrix algebra, ordinary differential equations, and optimisation techniques.

Aims:
- To introduce students to the basic linear algebra, elementary differential equations and optimisation techniques so that they will be able to handle some of the quantitative methods in Economics

Objectives:
On completing the module a student will be able to:
- Understand the basic rules of matrix algebra
- Use the relevant techniques in matrix algebra to solve a system of linear equations
- Understand the techniques of solving some differential equations
- Understand basic optimisation principles
- Use these techniques to solve various kinds of problems in different fields of economics

Assessment:
Procedural assessment will be made on the basis of assignments and participation in tutorial classes.

There will also be a 2-hour unseen examination in the Summer Term.

Pre-requisites:
Using Mathematics in Economics (ECO00003C)

Main References: