

## **Guidance on Selecting Quantitative Courses**

If you intend to list an Economics, Finance or related course in your selection for the coming academic year, please read through the following background guidance regarding the prerequisites and expected level of maths for these courses. You should note that the courses taught at LSE are more advanced and rigorous than those on offer at many other universities. Accordingly, if you do not have the appropriate background you will place yourself at a very serious disadvantage.

### **EC102 Economics B**

- more rigorous than introductory courses at most universities
- an introductory level calculus course

### **MA 100 Mathematical Methods**

- a good grade in a serious single variable calculus course

### **ST 102 Elementary Statistical Theory**

- a good grade in a serious single variable calculus course
- some knowledge of statistics is a considerable advantage

### **EC201 Microeconomic Principles I**

- a principles of economics course similar to EC102
- a good grade in a serious single variable calculus course and some knowledge of partial derivatives
- more policy and applications oriented than EC202

### **EC202 Microeconomic Principles I (this is close to graduate level)**

- a principles of economics course similar to EC102
- a good grade a serious multivariate calculus course (differential calculus is much more important than sophisticated integration)
- linear algebra
- oriented towards formal proofs and mathematical analysis: for those who enjoy maths in economics

### **EC210 Macroeconomic Principles**

- a principles of economics course similar to EC102
- a good grade in a serious single variable calculus course and some knowledge of partial derivatives

### **EC220 Introduction to Econometrics**

- a good grade a serious multivariate differential calculus, some knowledge of partial derivatives
- a serious introductory statistics courses that include rigorous coverage of probability theory

### **EC221 Principles of Econometrics (this is close to graduate level)**

- very good grades in a serious multivariate calculus course (differential calculus is much more important than sophisticated integration)
- linear algebra (matrices and vectors, abstract vector spaces are not required)
- a serious introductory statistics course
- concentrates more on formal proofs and less on applications than EC220

### **EC230 European Economic Policy**

- introductory micro and macro

**PH211 Philosophy of Economics**

- principles of economics
- intermediate micro & macro though these can be taken concurrently with the course

**FM212 Principles of Finance**

- principles of economics

All 300 level Economic courses are taken by final year undergraduates at LSE. Almost all require a background in micro, macro and econometrics at an advanced intermediate level. In addition, General Course students intending to take these courses must have a good command of calculus.

**EC301 Advanced Economic Analysis**

- micro and macro
- a serious multivariate calculus course (differential calculus is much more important than sophisticated integration),

**EC302 Political Economy**

- micro, macro, and econometrics

**EC303 Economic Analysis of the European Union**

- micro and macro

**EC305 Economic Analysis of Institutions**

- micro and macro

**EC307 Development Economics**

- micro, macro, and econometrics

**EC309 Econometric Theory (this course is well above the level of a starting graduate course)**

- excellent grades in serious courses in linear algebra, multivariate calculus, statistics
- econometrics

**EC311 History of Economics: How Theories Change**

- micro and macro

**EC313 Industrial Economics**

- micro

**EC315 International Economics**

- micro and macro

**EC317 Labour Economics**

- micro, macro, and econometrics

**EC321 Monetary Economics**

- micro and macro

**EC325 Public Economics**

- micro

**EC 333 Problems of Applied Econometrics**

- micro, macro and econometrics

**FM300 Corporate Finance, Investments and Financial Markets**

- micro
- principles of finance

**FM 320 Quantitative Finance,**

- micro, macro and econometrics
- a good grade in a serious calculus course
- principles of finance