CERGE-EI Master of Arts in Applied Economics

Course Description

1. Course Name
Quantitative Methods 1

2. Abbreviation
QM1

3. Code
XXXX

4. Core or elective
Core

5. Number of credits
Three credits (U.S. system)

6. Scheduled class meetings
Four teaching hours per week: two 90-minute class meetings per week.
Possible exercise session: one 90-minute meeting per week.

7. Outline
The goal of this course is to provide students with a knowledge of know the elements of statistical inference, namely multivariate statistics and multivariate data analysis methods. Students will understand and be able to perform standard descriptive and inferential data analysis, investigate and test relationship between variables, and specify, use and interpret multivariate models, including regression-type models. The course will also emphasize empirical analysis and focus on the use of data in practice along with the use of available statistical software. An empirical project is an integral part of the course. If possible, economics, financial, and business applications will be chosen during the course to reflect the interests and backgrounds of students.

8. Textbook
Studenmund (2011): *Using Econometrics: A Practical Guide, 6/e*, Pearson.