

COURSE DETAIL

MATHEMATICAL OPTIMIZATION FOR ECONOMICS

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Economics

UCEAP Course Number

111

UCEAP Course Suffix

E

UCEAP Official Title

MATHEMATICAL OPTIMIZATION FOR ECONOMICS

UCEAP Transcript Title

MATH OPTIMZATN/ECON

UCEAP Quarter Units

2.50

UCEAP Semester Units

1.70

Course Description

This course applies mathematical optimization to the analysis of economic problems. Topics include: optimization without constraints-- optimization in open sets and global extrema of concave/convex functions; optimization with equality constraints-- local and global relative extremum and economic interpretation of the Lagrange multipliers; optimization with inequality constraints-- comparative statics, convex programming, and economic interpretation of the Kuhn-Tucker multipliers. *Previous coursework in Introductory Mathematics for Economics is required. Texts: Alpha C. Chiang y Kevin Wainwright. Fundamental methods of mathematical economics. Mc Graw Hill, 2006. Knut Sydsaeter y Peter J. Hammond. Mathematics for economic analysis. Prentice Hall, 1995.

Language(s) of Instruction

English

Host Institution Course Number

13444

Host Institution Course Title

OPTIMIZACIÓN MATEMÁTICA PARA LA ECONOMÍA

Host Institution Course Details

Host Institution Campus

Facultad de Ciencias Sociales y Jurídicas. (Getafe)

Host Institution Faculty

Host Institution Degree

Host Institution Department

Economía

Course Last Reviewed

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