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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