COURSE DETAIL

MATHEMATICS FOR ECONOMISTS

Country
Taiwan

Host Institution
National Taiwan University

Program(s)
National Taiwan University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Economics

UCEAP Course Number
114

UCEAP Course Suffix

UCEAP Official Title
MATHEMATICS FOR ECONOMISTS

UCEAP Transcript Title
MATH FOR ECONOMICS

UCEAP Quarter Units
3.00

UCEAP Semester Units
2.00

Course Description

This course teaches basic mathematical tools (linear algebra, multivariate differential calculus, function maximization) to build economic models and do economic analysis. The following mathematical tools are covered: Static Economic Models and The Concept of Equilibrium; Matrix Algebra; Vector Space and Linear Transformation; Determinant, Inverse Matrix, and Cramer's rule; Differential Calculus and Comparative Statics; Comparative Statics--Applications; Optimization; Optimization--Multivariate Case; Optimization--Equality Constraints and Nonlinear Programming; General Equilibrium and Game Theory.

Language(s) of Instruction
Chinese

Host Institution Course Number
ECON2011

Host Institution Course Title
MATHEMATICS FOR ECONOMISTS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Economics

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