

# COURSE DETAIL

## MANAGEMENT SCIENCE

**Country**

Korea, South

**Host Institution**

Yonsei University

**Program(s)**

Yonsei University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Business Administration

**UCEAP Course Number**

116

**UCEAP Course Suffix****UCEAP Official Title**

MANAGEMENT SCIENCE

**UCEAP Transcript Title**

MANAGEMENT SCIENCE

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course presents a practical approach (based on Excel examples) to understand the principles of management science and to apply them to business decision problems. Developing models of practical decision-making problems and solving them using Excel Solver, one learns how important and useful the scientific decision making process based on management science is for solving problems in real-world business applications. Focusing on management science modeling skills, this course covers linear programming, simplex method, sensitivity analysis, transportation models, integer programming, and others (if time permitted). Students learn the fundamental knowledge and analytical skills in management science. Management science (also called Operations research) combines the three broad disciplines of Mathematics, Computer Science, and Business Applications. This course aims to develop the ideas of developing, analyzing, and validating mathematical models for decision problems, and their systematic solution. The course involves modeling and mathematical analysis.

### Language(s) of Instruction

English

### Host Institution Course Number

BIZ2122

### Host Institution Course Title

MANAGEMENT SCIENCE

### Host Institution Course Details

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Business Administration

**Course Last Reviewed**

2021-2022

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