

# MANAGEMENT SCIENCE (MSCI)

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**MSCI 6070 Quantitative Analysis for Management 3 cr**

Introduction to the use of quantitative techniques, and computers to solve management problems. Mathematical optimization models, network analysis, and probability models.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: MSCI 5100.

**MSCI 7140 Quantitative Analysis for Management 3 cr**

Introduction to the use of quantitative techniques, and computers to solve management problems. Mathematical optimization models, network analysis, and probability models. Not to be held with MSCI 6070 OR MSCI 2150.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: MSCI 5110 (or MSCI.5100).

**Equiv To:** MSCI 2150, MSCI 6070

**MSCI 7550 Readings in Management Science (Ph.D.) 3 cr**

A study of recent literature in the Management Sciences and their applications, with emphasis on new developments.

**MSCI 7560 Doctoral Seminar in Management Science (Ph.D.) 3 cr**

Seminars on the selected research topics of recent advances in the field of Management Science covering areas of current interests.

**MSCI 7680 Mathematical Optimization Models 3 cr**

A specialized course in mathematical optimization. Linear programming, integer programming, Fritz John and Kuhn-Tucker theorems, quadratic programming, nonlinear programming, duality, network analysis.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: OPM 7120 (or OPM 6090).