

COURSE DETAIL

ANALYTICS MODELING

Country

Ireland

Host Institution

University College Dublin

Program(s)

Irish Universities, University College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Business Administration

UCEAP Course Number

108

UCEAP Course Suffix**UCEAP Official Title**

ANALYTICS MODELING

UCEAP Transcript Title

ANALYTICS MODELING

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course introduces the concept of mathematical and analytics modeling in decision problems, and surveys some of the major mathematical models and solution techniques. Students learn how to conceptualize complex business problems and transform them into a set of equations (models) that describe the problem. Once modeled, the problems can be solved using optimization techniques such as linear or mixed integer programming. Students are introduced to the use of computer packages to implement models for sample problems and assignments. The principles of active learning guide the face-to-face contact sessions with students engaging in hands-on mathematical modeling exercises.

Language(s) of Instruction

English

Host Institution Course Number

MIS30040

Host Institution Course Title

ANALYTICS MODELLING

Host Institution Campus

UC Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Management Information Systems

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