# COURSE DETAIL

| OPERATIONS RESEARCH |
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| **Country**<br>Ireland |
| **Host Institution**<br>University College Cork |
| **Program(s)**<br>University College Cork |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Mathematics |
| **UCEAP Course Number**<br>137 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>OPERATIONS RESEARCH |
| **UCEAP Transcript Title**<br>OPERATIONS RESEARCH |
| **UCEAP Quarter Units**<br>5.00 |
| **UCEAP Semester Units**<br>3.30 |

**Course Description**

Students study the application of statistical and computational methods to decision-making problems in management. Linear programming models for resource allocation; sensitivity analysis and duality; multiple management objectives using goal programming; network flow models for transportation, job-scheduling and inventory management; integer linear programming; network-representations; resource-levelling and time-cost tradeoffs, stochastic optimization.

**Language(s) of Instruction**
English

**Host Institution Course Number**
MS3022

**Host Institution Course Title**
OPERATIONS RESEARCH

**Host Institution Course Details**
https://ucc-ie-public.courseleaf.com/modules-visiting-student/?details&srcdb=20...

**Host Institution Campus**
University College Cork

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Statistics

**Course Last Reviewed**
2024-2025

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