

ISE 441 Fall 2004

Instructor: Trevor S. Hale, Ph.D.
Office: 275 Stocker Center
Phone: 593 1543
Cell: 707-4253
Email: halet@ohio.edu
Web: <http://www.ent.ohiou.edu/~thale>
Hours: MW 1:00 – 3:00 and by appointment
Prereq: ISE 305
Text: The Science of Decision Making, Denardo

Course objective:

The primary objective of this course is to provide an introduction to and a survey of the basic methodologies of operations research. Linear, nonlinear, integer, dynamic, and goal programming topics are introduced. The simplex method for solving linear programs is covered in detail. Deterministic topics such as facility layout, facility location, graph theory, and network analysis will be introduced. Stochastic topics such as decision trees, stochastic programming, simulation, and Markov processes will also be introduced. The use of operations research software tools will be emphasized.

Inputs:

Students entering ISE 441 are expected to be able to:

Outcomes:

Upon the completion of ISE 441 students will be able to:
Apply mathematical programming to make decisions
Develop a spreadsheet to solve mathematical problems and analyze data
Use software tools to solve linear programming problems

Grade distribution:

Homework	25%
Midterm 1	25%
Midterm 2	25%
Final exam	25%

Homework policy:

No late homework will be accepted.

Inclement weather policy:

No one will be required to travel to and from class when safety is an issue.

Scholastic dishonesty policy:

At the discretion of the instructor, a grade of an F will be awarded for the first offense.

Make up exam policy:

Only if university excused.

Attendance policy:

Attendance is not required but it is encouraged. Prior notification is also encouraged.