

# COURSE ANNOUNCEMENT

## DETERMINISTIC OPERATIONS RESEARCH

### MATH 487/687

Fall Semester 2009  
MWF 12:00-12:50  
AB 205

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In Math 487/687 we cover the techniques of deterministic operations research. Topics include linear and integer programming, shortest paths in a network, project scheduling, dynamic programming, deterministic inventory theory, and nonlinear programming. Although we will study the theory of linear programming (in particular the simplex method), and also that of nonlinear programming, much of the focus of the course will be on model formulation of applied problems. Students will go “on line”, using the LINGO computer software to solve business-school style “cases”.

Prerequisites: MATH 283 or 330 or equivalent, or else permission of the instructor. No background in operations research is required.

**Text:** Winston, Wayne L. Operations Research: Applications and Algorithms (4<sup>th</sup> edition), available at the bookstore.

Coming Spring 2010: MATH 486/686 Game Theory