OFFICIAL SYLLABUS
OR 587b – Mathematical Programming
Adopted - Spring 2004 (Committee: Drs. M. Agustin, M. Cooper, E. Sewell)

Course Description. Theory, methods, and applications of integer, dynamic, and nonlinear programming. Prerequisite: OR 587a


Course Outline and Topics

- Chapter 2: Shortest Paths: Label-Setting Algorithms (Optional)
- Chapter 6: Maximum Flows: Basic Ideas (Optional)
- Chapter 7: Maximum Flows: Polynomial Algorithms (Optional)
- Chapter 12: Assignments and Matchings (Optional)
- Chapter 13: Minimum Spanning Trees (Optional)
- Chapter 9 (Winston): Integer Programming
  - Chapter 16: Lagrangian Relaxation and Network Optimization
  or
  - Chapter 12 (Winston): Nonlinear Programming
  - Chapter 20 (Winston): Deterministic Dynamic Programming

Any instructor should cover all of the material specified and several of the optional sections on graphs and networks.