

**North Carolina State University  
Operations Research Graduate Program  
IE/OR 601/801**

**Friday, September 21, 2007  
Daniels Hall Room 218  
11:30 a.m.**

**Stochastic Optimization of  
a Multi-OR Surgical Suite**

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**Abstract**

Appointment scheduling systems are used in many service industries to increase the utilization of resources, match workload to available capacity, and smooth the flow of customers through a system. They are also important for healthcare delivery where applications include scheduling of patients to outpatient clinics and the design of operating room schedules. In this talk I will discuss stochastic optimization models for staffing and scheduling of multi-OR outpatient procedure centers. I will describe the mathematical model, structural properties, solution methodologies employed, and sample numerical results based on real data to illustrate the impact of the model.

**Refreshments will be served in 401 Daniels Hall at 11:00 a.m.**