Syllabus
ESE 504: Performance Evaluation
Spring 2011

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Course Objective: To give students an in depth knowledge of performance evaluation for scheduling, computer and telecommunication networks.

Two Texts by Prof. Robertazzi (both from Springer): (1) Computer Networks and Systems: Queueing Theory and Performance Evaluation, 3rd edition, 2000, (2) Networks and Grids: Technology and Theory, 2007 (chapter 5 "Divisible Load Modeling for Grids" only, an electronic copy of chapter 5 is available from springerlink.com for about $25). The books should be in the campus bookstore. They can also be ordered from springer.com

Topic 1: Divisible Load Scheduling Modeling and Solutions (chapter 5 Networks and Grids)

The following five topics are from the Computer Networks and Systems book.

Topic 2: Transient and M/G/1 queues (chapter 2)

Topic 3: Networks of Queues (chapter 3)

Topic 4: Numerical Solution of Models (chapter 4)

Topic 5: Stochastic Petri Nets (chapter 5)

Topic 6: Network Traffic Modeling (chapter 7 [only in 3rd edition])

Grading:

Midterm: 35%, Final: 45%, Projects (two) 20%

Note: *If you have a physical, psychological, medical or learning disability that may impact your ability to carry out assigned course work, I would urge you to contact the staff of Disabled Student Services (DSS) at 631-632-6748. DSS will review your concerns and determine what accommodations are necessary and appropriate. All information and documentation of disability are confidential.*