ESE 546: Computer Networks
Syllabus (Fall 2011)

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Goal: To introduce students to basic networking technology and common techniques of statistically analyzing networks.

Queueing Theory (Sept.-Oct.)

(1) Continuous Time Queues
(2) Discrete Time Queues

Network Technology (Nov.-Dec.)

(1) Multiple Access Performance
(2) Teletraffic Modeling
(3) Switching Elements and Fabrics
(4) Routing
(5) Protocol Verification
(6) Flow and Congestion Control
(7) Introduction to Divisible Load Scheduling Models
(8) Related topics as time permits

Books (at Stony Books, across from RR station and at Campus Bookstore)

T. Robertazzi, *Computer Networks and Systems: Queueing Theory and Performance Evaluation,* 3rd edition, Springer, 2000.

T. Robertazzi, *Networks and Grids: Technology and Theory, 1st edition.* Springer, 2007.

Grading:

Projects [two] (30 points), Exam 1 (25 pts), Exam 2 (25 pts), Term paper (20 pts). .

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