Instructor
Savera Tanwir
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Email: stanwir@ncsu.edu
Office hours: Mon/Wed 11-12 and by appointment

Video Lectures by Dr. Harry Perros
1005 EB2, Centennial Campus

Text:
A copy of the manuscript can be purchased from Sir Speedy on Hillsborough Street. Please note that the price of the manuscript is just for the cost of photocopying and binding. Also, please note that a copy of the manuscript is placed in the reserves in the Hunt library.

Reserves
- Networking Services: QoS, Signaling, Processes, H.G. Perros
- Connection-Oriented Networks, H. Perros
- MPLS-Enabled Applications, Minei and Lucek
- Deploying IP and MPLS QoS For Multiservice Networks, J. Evans and C. Filsfils
- The 3G IP multimedia subsystem (IMS): merging the Internet and the cellular worlds, G. Camarillo and M. A. Garcia-Martin
- Service Management: Operations, Strategy, and Information Technology, Fitzsimmons, J.A. and Fitzsimmons, M.J
- The IMS: IP Multimedia Concepts and Services, M. Poikselkä and G. Mayer

Course Outline:
1. Introduction
2. Services
3. QoS/QoE
4. SIP
5. IMS
6. MPLS
7. Label distribution protocols
8. Congestion control
9. RACF
10. Modeling
11. Queueing Models
12. Queueing Networks

Grading:
Homework: 20% of final grade
Projects: 30% of final grade  
Mid-term exam: 25% of final grade  
Final Exam: 25% of final grade

Auditing the course:  
You will have to do all the work except the exams and earn a minimum of 70%

Exam make-up policy:  
Please note that you will have to take the exam the day indicated in the schedule.  
Exceptions only for medical reasons, but you need to provide a valid doctor's letter.)

Deadlines for homework and projects:  
I will give you a generous amount of time to complete your homework and projects. No extensions will be given without an official university excuse. Contact me as soon as possible if you need to discuss reasons for late or missed assignments or projects.

Prerequisites  
CSC/ECE 570. Graduate student standing in Computer Science or Electrical and Computer Engineering, or permission of the course instructor. You are also expected to have a solid foundation in an object-oriented programming language.

Academic Integrity  
The university provides a detailed policy on academic integrity. This policy can be found in the Code of Student Conduct. It is understood that when you sign and submit your homework, projects, and exams, you are implicitly agreeing to the university honor pledge: "I have neither given nor received unauthorized aid on this test or assignment."

Academic dishonesty (e.g., cheating or plagiarism) will not be tolerated under any circumstances. If you are having difficulty with any part of the course material, please see me as soon as possible. I will do everything I can to help you with any course-related problems you may be having. If you are found to be guilty of academic dishonesty, however, I will then do everything I can to see that you are punished as forcefully as possible. This may include asking to have you suspended or expelled from the course, the program, and/or the university. At the very least, you will receive a zero for the assignment or exam in question, and your name will be placed on record with the university as having committed an academic offence. (Multiple offences during your academic career will result in suspension or expulsion from the university). I take absolutely no pleasure in pursuing cases of academic misconduct, and would ask that you please do not put me in this position.

Students With Disabilities  
All effort will be made to ensure that no students with disabilities are denied any opportunity to successfully complete this course. If you have specific requirements that need to be addressed, please contact me immediately. Possible changes can include (but are not necessarily limited to) rescheduling classes from inaccessible to accessible buildings, providing access to auxiliary aids such as, tape recorders, special lab
equipment, readers, note takers, and interpreters. This may also include oral or taped tests, readers, scribes, separate testing rooms, or extension of time limits.