COSC 6397 Computer and Network Security
Instructor: R.M. Verma, Office: PGH 532, Tel: 3-3348.

Recommended Textbook (not required)

References
• Applied Cryptography by B. Schneier, Wiley, 1996.

Goals
• To provide computer science graduate students with a broad understanding of security issues in computer systems and networks.

Topics covered include (but are not limited to) the following:
• Cryptography: secret key, public key and digital signatures.
• Authentication and identification schemes
• Intrusion detection
• Security of electronic mail and the World Wide Web
• Viruses, Worms and Trojans
• Firewalls
• Protocol Verification
• Practical Issues - Guest lectures by System Administrator

Grading criteria (subject to change): Class participation 4%, Assignments 20%, Term paper and presentation 16%, Midterm 20%, final (in class) 36%, and showing interest and enthusiasm for the course by doing something related to the course and beyond the course requirements 4%.

Academic Honesty Policy: No collaboration with anyone or anything in or outside the course is allowed on any homeworks, exams and programming assignments (yes, that excludes the internet as well). The appropriate help of the instructor and (if applicable) the TA is of course allowed and encouraged.