CS 519
Cryptography and Network Security
Fall 2012

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SUPPLEMENTARY BOOKS:
• Handbook of Applied Cryptography. A. Menezes, P. van Oorschot and S. Vanstone. CRC Press. (Available at http://www.cacr.math.uwaterloo.ca/hac/)

GRADING:
Project: 15%
Homework: 25%
Midterm: 30%
Final: 30%

SYLLABUS:
• Traditional cryptosystems
• Block ciphers
• Stream ciphers
• Hash functions
• Public key encryption
• Digital signatures
• Threshold cryptography
• Key management
• Authentication systems
• Kerberos
• IPsec
• SSL/TLS
• E-mail security
• Selected topics