CS6349 - Network Security

**CS 6349** Network Security (3 semester hours) This course covers theoretical and practical aspects of network security. The topics include use of cryptography for building secure communication protocols and authentication systems; security handshake pitfalls, Kerberos and PKI, security of TCP/IP protocols including IPsec, BGP security, VPNs, IDSes, firewalls, and anonymous routing; security of TCP/IP applications; wireless LAN security; denial-of-service defense. Students are required to do a programming project building a distributed application with certain secure communication features and required to participate in several network security lab exercises and cyber war games. Prerequisite: **CS 5390** (3-0) Y (2016-02-05 21:14:13)