

Course Syllabus

Spring 2025

**Welcome to CS696-852-class @NJIT.**

**Class General Info**

My contact info: sb936@njit.edu

**Helpful References:**

1. Cryptography and Network Security Principles and Practice, 8th edition, William Stallings
2. Computer Networking: A Top-Down Approach, 8th edition, Jim Kuross and Ross

**Course Description:** Network Management and Security are essential factors in the reliable, efficient, and secure operation of any network. As networks are mission-critical operations for enterprises and governments, keeping those resources, services, and communication channels running and secure has become the first priority of any organization.

This course provides a thorough introduction to network security and management technologies and standards as well as to a wide variety of techniques and tools for evaluating, monitoring, and increasing the cyber resilience of computer networks, servers, clouds, communication channels, data security as well as business continuity in the face of disasters (natural or man-made) and disaster recovery. Among the topics covered, the course explores the techniques of cryptography and the techniques for evaluating the security of networks and network devices, attack strategies, defense and prevention mechanisms for a path to cyber resiliency for networks, servers, clouds, communication channels, and most importantly for data.

The grading for the course is as follows:

**MIDTERM (35%)**

**FINAL EXAM (35%)**

**PRESENTATION POWERPOINT (30%)**

**Office hours:** Wednsedays: 03:30 pm - 04:30 pm; Zoom: <https://njit-edu.zoom.us/j/8310165968>

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Dr. Samaneh Berenjian

Course Summary: