

ECE Information and Network Security (Graduate)  
Group Presentation, 2008  
Spring 2008, Targeted Due Date: May 1, 2008

**Overview**

For this part of the course, students will break up into groups of 2, learn everything there is to know about a topic, and then teach the subject to other students in the class.

Teams should prepare a 15 minute presentation that can be displayed using a laptop and a projector. For example, you might want to create your presentation in Powerpoint or use LaTeX to create slides that can be viewed using a pdf viewer.

Presentations should aim to

- Motivate the subject
- Introduce the fundamental knowledge needed to understand the subject
- Explain the solutions used to address the subject/problem

Teams should be prepared to give their presentations to the class by April 7th, 2003. The actual times for the presentations will be scheduled later in March.

**Suggested Topics**

Below are some suggested topics for investigating. Please contact me to let me know what topic you would like. If it hasn't been selected already, then I will sign you up for that topic. If you would like to discuss a different topic than those provided, please see me.

Elliptic Curve Cryptography	Error Correcting Codes
AES: Rijndael	Multicast Authentication
Onion Routing	Worms and Mobile Code
Knapsack Public Key Cryptography	Hardware Implementations
Probabilistic Cryptography	Secure Electronic Transaction (SET)
Secure Election Protocols	Database Security
WLAN and IEEE 802.11 Security	Secure Random Number Generation
Efficient Implementation Issues	Timing Attacks on RSA