Instructor: Carlos Fernando Gamboa  
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Office Hours: Tuesdays 5:00 PM to 5:45 PM or by appointment.  
Office Location: Room 258a, Light Engineering building  

Text:  


Grading:  
- Test 1 30%  
- Test 2 30%  
- Project 40%  

Week 1:  
Introduction to network topology  
Review computer network technologies  
Review OSI layered protocol  

Week 2:  
Introduction to Cryptography  
Block Cipher and Modes  

Week 3:  
Hash Functions and Message Authentication Codes  

Week 4:  
The Secure Channel  

Week 5:  
Implementing cryptographic systems (issues)  

Week 6:  
The prime numbers in the cryptography context  

Week 7:  
Public-key cryptography  

Week 8:  
Introduction to cryptographic protocols  

Week 9:  
Implementing cryptographic systems (issues), continuation.  

Week 10:  
Centralized key servers.  
Introduction of a Public-Key Infrastructure.  

**Week 11:**
Implementation of the Public-Key Infrastructure.

**Week 12:**
Implementation issues of the Public-Key Infrastructure.

**Week 13:**
Storing secret information.
Society and networks security

**Week 14:**
Final

*Note: If you have a physical, psychological, medical or learning disability that may impact on your ability to carry out assigned course work, I would urge you to contact the staff in the Disabled Student Services office (DSS) 631-632-6748. DSS will review your concerns and determine with you what accommodations are necessary and appropriate. All information and documentation of disability are confidential.*