Resources and Assignments for **MNGT6040/5040 Network Security** class

To learn to implement security; not to be a hacker

1. **Books**:
   a. *A Manager's Guide to Network Security* by Carr & Snyder
   b. .PDF articles on *Social Engineering and Security* (emailed)
   c. *Computer Security Fundamentals* by Chuck Easttom, ISBN 0-13-171129-6
   d. *The Art of Intrusion* by Mitnick and Simon ISBN 0-7645-6959-7 (Optional)
   e. Security+ study guide
2. **Classes**
   a. **Tuesdays**: Lectures
   b. **Thursdays**: Lab sessions; Hands-on network assignments from lab manual.
   c. **Project Honeypot** = participation = 20% of grade
      i. Set up email accounts on Hotmail.com; Go to websites and signup using this account
      ii. Honeypot: Set up a computer to be connected to Internet on a student's cable or DSL modem without a router; without virus or other protection and no filtering; this will be home to hotmail account. Leave it open long enough to get stuff.
      iii. Bring computer to Lowder #024; no connectivity; open emails
         (1) Categorize email; is it just spam; phishing; carry virus
         (2) Determine true source and spoofed source; alert switching stations
         (3) Determine what attachments; what objective.
         (4) Determine if have been added to a BotNet; Open client.
      iv. Put a completely unprotected, unpatched machine on the University network to show just how vulnerable they are even in a relatively controlled environment.
3. **Mid-term Exam** - 15% of grade
4. **Assignments** - 5% of grade
5. **Individual/team Project** -
   a. Create a list of security subjects
   b. Each person will choose a topic and create a paper on it; no duplicates
   c. Papers will be shared with all other persons for critique.
6. **Class paper**: Whole class will participate on a network security and social engineering paper to be distributed to all of CoB
7. **Final Exam** - 10% of grade - Security+ Certification; passing = 100; not passing = 60.
8. Assignments:
   a. Do a reverse DNS of an IP address at www.samspade.org.
   b. Use the program _____ and view all header information for a spam email from honeypot & Carr's CD
      i. Who from; who really from; what IP address.
   c. Take a phishing email from honeypot and describe the techniques used, social and other

Schedule of Lectures (Tuesdays)

MGNS = *A Manager's Guide to Network Security*; CSF = *Computer Security Fundamentals*

May 24	CSF 1; MGNS 1-20; homework = one page on Social Engineering; be prepared to discuss case on pg 26
May 31	CSF 2; .pdf on OSI levels for security; review IP addressing
June 7	CSF 3, tools; CSF 5, viruses
June 14	Jack Lawton ½ day on NAMS/CoB; MGNS pg 21-70; CSF 7, Encryption & CSF 10 Cyber Terrorism
June 21	Tom Marshall ½ on Database Security
June 28	**Bliss Bailey** on AU networks w/VLAN
July 5	Brandon Rogers, *IronMail*® ½ day
July 12	Clif Fisher ½ day; CSF 9; homework = Create assess identification list for lab (CSF pg 222)
July 19	MGNS Wireless
July 26	
Aug 2	End of Classes: Final Exam = turn in Security+ exam

Schedule of Labs (Thursdays)

May 26	Familiarity of how to secure individual machine; fix a machine in lab & YOUR machine. CSF 6 & ex 8.1
June 2	Familiarity with Command line; set up server as target of Ping of Death
June 9	Tools referenced in CSF chapter 3; get tools, including Wild Packets
June 16	Perform Ping DoS (exercise 4.1); determine how to fix server to protect from DoS (Ref CSF 4, ex 6.1,5)
June 23	
June 30	
July 7	
July 14	
July 21	
July 28	

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