Instructor: Dale R. Thompson, Associate Professor of Computer Science and Computer Engineering  
Office: 331 ENGR  
Phone: 575-5090  
E-mail: drt@uark.edu.GO.HOGS (remove .GO.HOGS)  
WWW: http://csce.uark.edu.GO.HOGS/~drt  
Office hours: http://www.csce.uark.edu.GO.HOGS/~drt/schedule/schedule.html

Course catalog description: This course introduces security and secrecy in a networked environment. It is intended to familiarize students with the elements of secure communication, and how they inter-relate to provide secure networks in public and private settings. Prerequisite: graduate standing.


Goal: The goal of the class is to study security and secrecy in a networked environment.

Topics:
1. Symmetric encryption. (CE: a, e, k; CS: a, g)
2. Public key encryption, certificates, and digital signatures. (CE: a, e, k; CS: a, g)
3. Hash functions and message authentication codes. (CE: a, e, k; CS: a, g)
4. Authentication protocols. (CE: k; CS: b)
5. Electronic mail security. (CE: b, k; CS: c)
6. Web security. (CE: k; CS: c)
7. IP Security. (CE: k; CS: c)
8. Contemporary project. (CE: d, g, j; CS: d, e, f, h, j, k)
9. Ethics (CE: f, h, i; CS: i)

Grades:  
Course grades will be determined by these weights:  
  Homework: 25%  
  Midterm: 25%  
  Final Project: 50%  
The final class grade will be assigned according to the 10-point scale shown below. The grades may or may not be curved.  
A  90 – 100%  
B  80 – 89.9%  
C  70 – 79.9%  
D  60 – 69.9%  
F  < 60%  

Homework: All assignments will be given with a strict deadline, and students are required to submit their assignments on or before the deadline. Homework will be collected at the start of the class on the due date, and late submissions will not be accepted. In case of extenuating circumstances, students are advised to contact the professor as soon as practical. You are encouraged to discuss the course and the assignments with each other; however, your exams and homework should be your own work.

Attendance: Attendance will be taken. Attendance will be used as a deciding factor when the final average is between grades. For example, if you have an average of 89.5 and you have attended a high percentage of the classes it may be rounded up to an "A". If you have an average of 89.5 and you have attended a small percentage of the classes it will probably still be a "B".