

**DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING
AUBURN UNIVERSITY**

**COMP 7370
Advanced Computer and Network Security
SPRING 2006**

Student Course Notebook

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Course Syllabus

Course Scope

3 credits

Prerequisite: Comp 6370 or permission of the instructor

Survey of computer network attack and defense techniques, viruses and other malware and operating system vulnerabilities and safeguards.

Course Objectives

- 1). Recognize potential risks and threats to computer operations and communications.
- 2). Understand Federal rules and regulations affecting computer security, including legal ramifications, FOIA, and policies.
- 3). Understand security issues unique to wireless communications.
- 4). Have a working knowledge of relevant cryptographic techniques.
- 5). Have a critical understanding of computer security with an emphasis on “end-to-end” vulnerabilities.

References

Primary:

- 1). COMP 7370 Course Home Page:

<http://www.eng.auburn.edu/department/csse/classes/comp7370/index.html>

Graded Events Summary -- listed by TYPE of Graded Event

Event	Points	%(Approx)	Turn-in Directory
Examination 1	150	15	N/A
Examination 2	200	20	N/A
Final Exam	250	25	N/A
Project 1	100	10	/class/comp7370/proj1
Project 2	100	10	/class/comp7370/proj2
Project 3	100	10	/class/comp7370/proj3
Graded Homework 1	10	1	/class/comp7370/hw1
Graded Homework 2	10	1	/class/comp7370/hw2
Graded Homework 3	10	1	/class/comp7370/hw3
Graded Homework 4	10	1	/class/comp7370/hw4
Graded Homework 5	10	1	/class/comp7370/hw5
Graded Homework 6	10	1	/class/comp7370/hw6
Graded Homework 7	10	1	/class/comp7370/hw7
Graded Homework 8	10	1	/class/comp7370/hw8
Graded Homework 9	10	1	/class/comp7370/hw9
Graded Homework 10	10	1	/class/comp7370/hw10
Total	1000	100%	

Administrative Information

Instructor:

Dr. J.A. Hamilton, Jr. (Associate Professor)
Office: Dunstan 314 e-mail: hamilton@eng.auburn.edu

Absences:

There is no penalty for failing to attend class. The student will be responsible for all the material presented during missed lectures. Missing class does not excuse a student from turning in assignments on their due date. Early turn-ins are acceptable. A student who expects to be absent from class during an exam should notify the instructor well prior to the absence and ensure that the absence meets university criteria for an excused absence. Unexcused absences during a scheduled exam will result in a grade of zero for the exam.

Additional Instruction:

The material in this course is cumulative, and it is also based on prerequisite courses you have taken. If you don't understand something, schedule AI ***promptly!*** The longer you wait, the harder it will be to "catch up"!

Submission Policy for Assigned Work:

All projects and homeworks will be turned in electronically. Homework assignments will only be turned in electronically. Projects will require both hard copy and electronic turn-in. Detailed instructions will be provided in each assignment.

Electronic Turn-in:

Name your file with last name and first initial underscore assignment name and use a .txt extension for text files. Use appropriate extensions for source code files such as ".c" or ".ada." For example, I would name my turn-in file for homework 1 as: hamiltonj_hw1.txt. In the event of an erroneous submission, resubmit and append a character to the end of the file name – ex.: hamiltonja_hw1.txt, hamiltonjb_hw1.txt, etc. Note: revised submissions time-stamped after the deadline will be counted as late. Students have write and execute permissions on the turn-in directories, but do not have read permissions. The path to the appropriate turn-in directory is listed in the summary of graded events.

Late Policy:

A full letter grade cut will be imposed for every 24 hours (excluding weekends, but including holidays) that a project is late. After 96 hours, the project will receive no credit and the student will be subject to disciplinary procedures. Note that ALL assignments MUST be submitted -- even if this submission is not accomplished within 96 hours of the due date.

Up to 24 hours late	1 letter grade reduction
24 - 48 hrs late	2 letter grade reduction
48 - 72 hrs late	3 letter grade reduction
72 - 96 hrs late	4 letter grade reduction
96 – 120 hrs late	F grade with some points
more than 120 hrs late	F grade with 0 points

Assignments are **not considered** successfully turned in until file permissions on the electronic turn-ins are set correctly. It is the student's responsibility to check permissions, not the instructors. Late penalties will be assessed until permissions are correctly set.

NOTE: There will be a bonus for *functional* projects submitted early. You will receive a bonus of 2% per 24 hours submitted early, up to a maximum of 10%.

Documentation of Homework Assistance:

Students will list which students in the class they worked on the homework in the header of the homework submission.

Documentation of Project Assistance:

Assistance for all help, with the exception of syntax error resolution, must be acknowledged and placed at each specific location in the source code or documentation where assistance was received. Note that "assistance" is restricted to "advice," NOT "keying in the corrections for someone else." No student may make changes of any kind (keyboard, mouse action, etc) to another student's program. If you need further clarification, ask your instructor **before** submitting the project.

Examination Resources:

All examinations in this course will be open book and open note. You may bring and use any written references to the exams. The use of the textbook's solution manual in any form, bound, copied or electronic is forbidden. The use of any electronic devices such as laptops, PDAs, calculators, etc. is also forbidden.

Student Honor and Academic Integrity Issues

The policies of the Student Honor Code concerning electronic copying of individual work apply to the programming assignments in this class. In general, a student must personally enter (via the keyboard) all work submitted under his/her own name. Submission of *individual* work that was created by another student and subsequently transferred (using any automated transfer facilities) to the submitting student's account **is prohibited**. Software reuse, as described below, is permitted and will not be considered a violation of the "electronic copying" prohibition. Electronic transfer of portions of formal (i.e., instructor-designated) group projects among members of that group is also permitted.

Any output files submitted as part of a programming project must have been generated by that program. *Editing* of output files or submission of "output files" *created by an editor*, rather than being generated by the program, is clearly contrary to expectations and may very likely constitute an attempt to deceive, i.e. cheating.

Software Reuse:

Accordingly, unless otherwise instructed, reusable software components may be acquired from a variety of free software repositories available on the Internet. This type of "electronic copying" is acceptable; you simply need to document the source for the reusable software component and the method in which it was obtained. You will not be penalized for reusing this type of "library" source code.

Note, however, that other student accounts are **not** "free software repositories", and reusing code from another student is strictly prohibited.

Also note that, while you may find useful small pieces of a program in a free software repository, you should expect to develop the majority of the code used in these projects yourself. The projects are not intended to be software repository "cut and paste" exercises!