

CIT 482/582–Computer Security

Fall 2013

TR 4:50-6:05 in GH 335

Instructor Information

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Summary

Description : Theory and algorithms of computer security, including security policies, access control, secure programming, identity and authentication, information flow, and information assurance techniques.

Prerequisites : CSC 360: Object Oriented Programming II

Textbooks : Daswani et. al., *Foundations of Security: What Every Programmer Needs to Know*, Apress, 2007.

Student Learning Outcomes

By the end of the course, a successful student should be able to

1. Identify common threats to information security.
2. Understand authentication mechanisms.
3. Understand access control models.
4. Understand formal and informal security policies.
5. Understand how to use cryptography appropriately.
6. Apply secure design design principles.
7. Construct small secure programs.

Grading

Your grade in this course will be based primarily on a set of security assignments, which are worth 40% of your semester grade. Your grade will also include midterm and final examinations, each worth 30% of your semester grade. Your letter grade will be based on your overall percentage as shown in the tables below. The table on the left is for undergraduates taking CSC 482, while the table on the right is for graduate students taking CSC 582.

Undergraduate Students			
Grade	Percent	Grade	Percent
A	93-100	C+	77-80
A-	90-93	C	73-77
B+	87-90	C-	70-73
B	83-87	D+	67-70
B-	80-83	D	60-67
		F	0-60

Graduate Students			
Grade	Percent	Grade	Percent
A	93-100	C+	77-80
A-	90-93	C	73-77
B+	87-90	C-	70-73
B	83-87	F	0-70
B-	80-83		

In accordance with university policy, mid-term grades will be available online through MyNKU and are issued to all undergraduate students. These grades are not part of your permanent record and will be replaced when final grades are submitted. Remember: mid-term grades do not guarantee a good or bad class grade; they reflect the current level of performance and can be altered by the quality of subsequent work.

Preparation

As with most university classes, it is expected that to receive an average grade you will need to spend two to three hours out of class working on the course for each hour spent in class. This class meets three hours per week, so it is expected that you will spend six to nine hours out of class. As this is a 400-level class, nine hours of work is typical. To prepare for class each week, you need to do the following:

- *Before class*, read and understand the readings on the class schedule. If a section does not make sense to you, read it again and write down questions to ask me in class.
- Before class, print out the lecture notes on the web site for that day.
- During class, add your own notes to the lecture. The lecture is only an outline of what I'll talk about. You'll need to understand what we discuss in class in addition to what's on that outline. You can take your notes to the exams to help you, so be sure everything you write down everything you might need.
- After class, follow the links on the assignment and course web site to help you understand the assignments, and ask me questions whose answers you cannot find that way.

The book covers the theory of computer security, while the assignments cover the practice of security. You need to understand both. Use our time together in class to reinforce what you learn outside of class: ask me questions about the readings and assignments.

Students with Disabilities

Students with disabilities who require accommodations (Academic adjustments, auxiliary aids or services) for this course must register with the Disability Services Office. Please contact the Disability Service Office immediately in the University Center, Suite 320 or visit the website at <http://disability.nku.edu/> for more information. Verification of your disability is required in the Disability Services Office for you to receive reasonable academic accommodations.

Academic Dishonesty

The work that you submit in this course is subject to Northern Kentucky University's Student Honor Code (see <http://www.nku.edu/audience/current-students/honor.html>.) Issues involving academic dishonesty are taken very seriously by this instructor and are dealt with according to College and Department policy. Academic dishonesty includes but is not limited to:

1. Submission of material which is not the student's own work.
2. Improper access to evaluation material or records.
3. Conduct which interferes with the work or evaluation of other students.

Some specific examples of dishonesty include:

1. Copying from another person, book, magazine, or other electronic or printed media.
2. Obtaining another person's exam answer or answers.
3. Assisting another student in submitting work that is not the student's own.

It is unacceptable to share program code or assignment solutions. It is acceptable and often a good idea to talk about program algorithms and assignment solution strategies, but it is not acceptable to use the same code or code segments, or to share actual solutions to homework problems. Any act of academic dishonesty will result in a grade of zero (0) for that item for the first occurrence. An automatic F in the course will result for the second offense. This policy holds for assignments and programs, as well as for tests. In order to be fair, penalties will be applied to all parties involved regardless of culpability or fault.

Course Calendar and Class Structure

See the course web site, <http://faculty.cs.nku.edu/~waldenj/classes/2013/fall/csc482/> for a current course schedule.