

Course Policy Statement
USNA Department of Electrical & Computer Engineering

EE 487: Applications of Cyber Engineering
Fall AY 2013

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Website: <http://www.usna.edu/EE/ee488>

Course Survival Guides (Textbooks):

Hacking: The Art of Exploitation, Erickson

Principles of Electronic Communication Systems, 3rd ed., Frenzel

Course Purpose: EE487 is the second in a two-part series of cyber security courses offered by the electrical engineering department designed to give midshipmen the technical background necessary to understand the security ramifications of operating communications and networking equipment that they will undoubtedly encounter as commissioned officers.

****DISCLAIMER**:** As a student in this class, you will be taught concepts and gain experience with tools that could be put to unethical uses. **DON'T!!**

This course is highly cumulative in nature. Getting behind is costly and should be avoided. Whether you are a top student in technical subjects or one who is challenged by them, help is available and will be taken advantage of by the savvy among you.

Class Tools: Your textbook (with CD) and calculator are required for each class. The calculator should, at a minimum, have the capabilities of the TI-68 (complex numbers, simultaneous equations, trigonometric functions, etc.). In the event of a calculator failure, manual calculation will be required. Sharing of calculators will not be permitted during examinations. A laptop will be provided for in-class activities. You are encouraged to bring a mouse if it enhances your computing experience. The laptops will solely be used for coursework as directed by your instructor. When your instructor tells you to “close lids” or “stop using your laptops” you are expected to do so and give him your full attention. Students who repeatedly engage in activities outside the scope of the class will be marked absent in MIDS.

Homework: Homework is essential to your comprehension of the course material. A Problem Set (PS) will be assigned for each lesson as per the course syllabus and will be due the following lesson. *Failure to complete all homework assignments to the satisfaction of your instructor may be grounds for course failure.* In accordance with the Honor Concept, collaboration on homework is permitted as “authorized assistance,” however, wholesale duplication is not. In addition to properly documenting your work in homework solutions, any sources of outside assistance should be clearly cited.

Security Exercises: Security Exercises (SXs) are designed to be completed in class and will primarily be performed at the laboratory stations, although we will occasionally utilize classroom laptop computers. Reading SXs prior to class is required and will greatly increase your understanding of the learning objectives covered and minimize errors during execution. SXs may be worked individually or in groups at the **instructor’s discretion**. Each SX will be posted on the course website.

Exams and quizzes: Two 50-minute, closed-book exams are scheduled during the academic reserve periods, in addition to a comprehensive, 180-minute final exam. **YOU MUST SHOW ALL WORK TO GET FULL CREDIT.** A calculator and a single, one-sided, handwritten 8 ½” by 11” note sheet may be used for each exam. These note sheets will be collected by your instructor and returned after the exam. Discussion of the contents of the exam with other students on the day of the exam is *strictly forbidden* and constitutes a violation of the Honor Concept. Quizzes will be administered at the discretion of individual instructors. They may be closed or open-book, announced or unannounced.

Information Dissemination: Check online sources daily for course updates. The instructor will use Blackboard, the course website, and email extensively to communicate course information. Students are responsible for **ALL** material and assignments posted in these locations.

Section Leader: The Section Leader will be appointed by the instructor and will be responsible for taking attendance during each class, in addition to any other duties assigned by the instructor. The Section Leader will call the section to attention and report by name the individuals that are absent at the beginning of each class, as well as calling the class to attention for dismissal at the end of the period. In the event the instructor is late for class (in excess of 10 minutes), the Section Leader will contact the ECE Dept. Office (x3-6150). Pending the arrival of someone to take charge of the class, the Section Leader will supervise the class in a study period, collect any assignments due for that period and deliver them to the ECE Dept. Office at the end of the period. Under no circumstances is the Section Leader to secure the class.

Munchies: Beverages are permitted in classrooms provided they are in closeable containers. No food is permitted.

Absence/ Make-up: If you know you will miss a class, notify your instructor ahead of time. **Being absent does not absolve you of your responsibility to complete all assigned work.** Arranging for make-ups of exams, quizzes or security exercises is the responsibility of the student. All midshipmen are required to take the exams at the time prescribed by the Academic Dean.

Extra Instruction: Your instructor is available for individual extra instruction (EI) during office hours or other mutually agreeable time. To prepare for EI, bring your notes, homework problems, and specific questions/problems with you to help identify trouble areas.

Participation: Participation will comprise a significant total of your overall grade in addition to being a solid indicator of your overall course performance. Your participation grade will consist not only of your attentiveness and interaction, but also on graded weekly news article responses and contributions to the course glossary.

Calculation of course final grade. A weighted average final grade will be calculated as follows:

Exam 1	20 %	**The instructor reserves the right to adjust your final grade based upon their evaluation of your overall course preparation and participation.**
Exam 2	20 %	
Final Exam	25 %	
Security Exercises	10 %	
Quiz/Homework	15 %	
Participation	10 %	

Letter grades will be assigned according to the following table:

Numerical score	$\geq 89.5\%$	79.5% – 89.5%	69.5% – 79.5%	59.5% – 69.5%	$\leq 59.5\%$
Letter grade	A	B	C	D	F

D. A. Brown
EE487 Course Coordinator