CASPER COLLEGE COURSE SYLLABUS
CSEC 1500-N1 Network Security Fundamentals

Semester/Year: FALL/2014
Lecture Hours: 2  Lab Hours: 2  Credit Hours: 3
Class Time: Online  Days: S-S  Room: Your Own!

Instructor’s Name: Eric Salveggio
Instructor's Contact Information: Office Phone: (c) 277-3918  Email: ericsalveggio@caspercollege.edu
Office Phone: (c) 277-3918

Office Hours: 5-9 M-F

Course Description: This course examines current standards for information security through examination of security technologies, methodologies and best practices. Topics include evaluations of security models, risk assessment, threat analysis, attack types, encryption technologies, organizational technology, security implementation, disaster recovery planning, and security policy formulation and implementation.

Statement of Prerequisites: CSEC 1505

Goal: This class is going to be an eye opener for many, and yet, we’ll only be scratching the surface of really goes on in the realm of cyber crime, and cyber defense. It is hoped that the class will pique the interest of the student to further pursue this field of study. Research within this field continues into the PhD level, is a never ending venture, and is never stagnant or dull.

Outcomes:
1. Solve problems using critical thinking and creativity
2. Demonstrate knowledge of diverse methods of attacks, and defense in depth
3. Use appropriate technology and information to conduct research
4. Describe the value of personal, civic, and social responsibilities in regards to protecting networks

Course Objectives: The overall objectives of this course is to introduce the student to world of cyber warfare and defense. Topics covering civilian and government entities that are involved in these topics will be touched upon, as well as the tools being used. Research of these tools, and those that are constantly being propagated for both offense and defense will be conducted, and discussed. With these discussions, students will be challenged to solve the problems facing all networks for their defense, and how hackers may use some of these same tools to perform attacks.

Methodology: This course will be a combination of online lecture, online research, and lab simulations. Your feedback is valuable as the instructor uses course evaluations in determining course methodology.

Evaluation Criteria: Participation is a critical part of this course! If you’re not here, you’re missing a lot of info, and obviously not participating. As such, you will be graded on your participation. There will be a midterm, final, and research paper. Participation = 10%; Midterm = 20%; Final = 20%; Research Paper = 50% of final grade.
Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.


**Class Policies: Last Date to Change to Audit Status or to Withdraw with a W Grade:** April 14, 2015 is your last date to withdraw from this course.

**Student Rights and Responsibilities:** Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

**Chain of Command:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

**Academic Dishonesty:** (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

**Official Means of Communication:** Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

**Calendar or schedule indicating course content:** (be as complete here as possible, at least a grid showing week by week topics to be covered, assignments, due dates, readings etc. This can always be modified with a new handout later in the semester – better to send out a revised schedule than to trust verbal announcements by themselves)

| Week 1 – Chapter 1 | Week 9 – Chapter 9 |
| Week 2 – Chapter 2 | Week 10 – Chapter 10 |
| Week 3 – Chapter 3 | Week 11 – Chapter 11 |
| Week 4 – Chapter 4 | Week 12 – Chapter 12 |
| Week 5 – Chapter 5 | Week 13 – Chapter 13 |
| Week 6 – Chapter 6 | Week 14 – Chapter 14 |
| Week 7 – Chapter 7 | Week 15 – Chapter 15 |
| Week 8 – Chapter 8 and MIDTERM | Week 16 – Final and Project Paper |