CSC 455-001, Fall 2018
Enterprise Security
M/W 2:30–3:45, STEM Room 405

Professor David Cook, Ph.D.  cookda@sfasu.edu, 312Q STEM Building, 468-2508

PREREQUISITES:  CSC 321 or 331 or 355, Must have a grade of C or better in each prerequisite course.

OFFICE HOURS:  M/W 11:00 – 12:30, and 1:00 – 2:30.  T/Th from 1:00 – 2:00.  I am also available by appointment as needed.  You should make an appointment to see me outside of office hours, but if my office door is open, you’re free to drop in.  I do require appointments for Fridays, made 24 hours in advance and mutually agreed to.

CATALOG DESCRIPTION Practical approaches to ensuring the security of information systems. May not be used to satisfy computer science requirements for a major or minor in computer science or computer information systems.

PURPOSE OF COURSE  The purpose of this course is to provide the student with an understanding of tools and techniques employed to assure security in information systems. Legal, ethical, professional, and technical issues will be addressed. Current topics will be explored.

EDUCATIONAL OBJECTIVES
Upon successful completion of the course, students should be able to:

1. Demonstrate an understanding of the computer security field through identification of need, social issues, risk assessment and planning.
2. Demonstrate an understanding of the threats and controls for operating system and network security and to study specific system vulnerabilities.
3. Identify techniques of disaster planning and recovery.
4. Identify the tools and techniques of digital forensics.
5. Describe current topics in the computer security field.

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  Bastion Hosts

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Virtual Private Networks .................................................................................................................... 2

Current Topics ..................................................................................................................................... 2

Exams (plus final) ............................................................................................................................... 3

TOTAL 45

REFERENCES
Smith, Elementary Information Security, Jones and Bartlett, 2016

        RECOMMENDED: All-In-One CISSP, by Shon Harris. You do not need to buy it, but I will
                       be referencing it. Note that an older edition can be had for as little as $10 from eBay.
                       It is an excellent reference (in fact, THE reference book) if you are considering
                       a career involving security.

MATERIAL: There will be multiple assignments, group projects, oral presentations, and written work.
Assignments count for 40% of the total grade. Assignments must be submitted by email or a D2L.
Programs, quizzes, lab projects & homework will count for about 45% of your grade.

EXAMINATIONS:  (Approximately 50% of the course grade) – from the book, lectures, and outside readings
                 NOTE – all exams are comprehensive
                 Test 1  approximately 10% of your final grade, Wed, September 26th
                 Test 2  approximately 10% of your final grade, Wed, Oct 24th
                 Test 3  approximately 10% of your final grade, Wed, Nov 28
                 Final (Comprehensive) approximately 20% of your final grade, Fri, Dec 14th, 10:30 – 12:30

NOTE: There are no exemptions from the final examination and no changes in taking the final examination. If the
       final exam time is a problem, you need to drop this course.

ATTENDANCE AND GRADING:
Attendance and constructive class participation are expected. This is worth 10% of your grade (1 letter grade). I
do not teach the book. I expect you to read the book yourself. My lectures introduce material not in the book, but based
upon your prior understanding of the book coverage. I will make an effort to give you copies of my slides on the COB
web site - but you are responsible for being in class and taking notes on the material. Except for excused absences, I
will not re-teach the material.

GRADING POLICY: My typical grading policy is the standard 90 cutoff for an A, 80 for a B, etc. Grades below 60 will receive an F. I will not raise the cutoffs. I reserve the right to lower the cutoffs by curving the grades – but the 90/80/70/60 cutoffs will never be raised. Note that there might be group projects.

ELECTRONIC DEVICES: I encourage the use of electronic devices such as tablets, computers, etc. to facilitate your learning. Most of my slides will be posted on D2L prior to class – you are encouraged to download and bring them with you. Note that computers, tablets, phones, etc. are to be used to support learning in my class – not for social media updating, web browsing, texting, doing homework for other classes, etc. If it becomes obvious that you are not using your electronic devices properly and disrupting the learning of other students, I will ask you to stop. After the second warning, I will ask you to leave the class. **Note that all devices must be powered off, placed in a backpack or purse, and may not be used during tests.** I ask that all phones be put on vibrate during class. Also – if you spend the hour browsing on the internet or doing other homework – please give me credit for recognizing and counting it against your participation.
Program Learning Outcomes:
Program learning outcomes define the knowledge, skills, and abilities students are expected to demonstrate upon completion of an academic program. These learning outcomes are regularly assessed to determine student learning and to evaluate overall program effectiveness. You may access the program learning outcomes for your major and particular courses online at the CS Dept website.

General Student Policies:
Academic Integrity (A-9.1)
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one’s paper without giving the author due credit. Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp.

Withheld Grades Semester Grades Policy (A-54)
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

Students with Disabilities
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Acceptable Student Behavior
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic, or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.