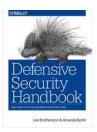
Department of Computer Science

	inue I ., Academic Bui	Huntsville, Texas ding One P.O. Box 2090 • 77341-2090	(936) 294-3846 Fax • (936) 294-4312	
		COURSE SYL DFSC 5325 Organizational System Sec Fall 2017 - August 23 rd to	5-01 curity, CRN: 80810	
Location:		Online Course-SHSU Distance Education	via Blackboard Learning Management System	
	Instructor Dr. Narasimha Shashidha		none 6-294-1591	
	Office hours:	Online via email and forums on Blackboa	ırd.	
	Course description:	protection of organizational systems i accountability and access control, 2) the l	of system security concepts as applied to the ncluding 1) principles of security modeling, ISO model for network infrastructure design and and control management, 4) auditing and 6) law, investigations and ethics.	
	Course objectives:	After taking this course, students will have the theoretical and practical knowledge about the key issues relating to system security which will enable them to understand today's computing systems and their vulnerabilities. Next, students will learn the basic building blocks for securing contemporary systems and apply those building blocks to today's applications.		
	Textbook:	No Textbook Required for the Course.		
		Computer and Information Security Handb By: John R. Vacca Publisher: Morgan Kaufmann Pub. Date: May 10, 2017 Print ISBN-13: 978-0-12-803843-7 Veb ISBN-13: 978-0-12-803929-8 Pages in Print Edition: 1280 .ink: <u>http://bit.ly/2v33EN5</u>	pook, 3rd Edition Computersat	

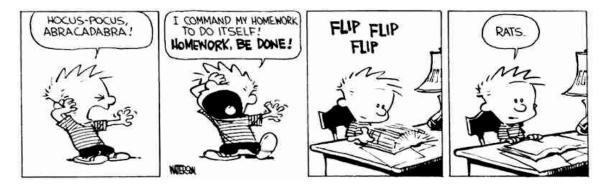
Reference Book 2: Defensive Security Handbook, 1st Edition By: Lee Brotherston; Amanda Berlin Publisher: O'Reilly Media, Inc. Pub. Date: April 18, 2017 Print ISBN-13: 978-1-4919-6038-7 Pages in Print Edition: 282 Link: http://bit.ly/2wbFyVj



Other Books:There are other interesting books on System Security available on ProQuest. While these
are not required readings for this course, I strongly recommend that you study a couple of
additional books as part of your academic training in this area. I will post references to
these books, online articles etc during the course of the semester and at times these
additional materials may be needed to complete the assignments successfully. Here is the
link to the ProQuest portal: http://proquest.safaribooksonline.com.ezproxy.shsu.edu.Please login to the portal using your SHSU username and password.

Course requirements:

Assignments: Students will be required to complete assignments at the end of each section. I will assign homework as necessary throughout the semester. Homework is an opportunity to demonstrate your knowledge. I expect clear, comprehensive explanations of processes and concepts in typeset homework assignments. All homework must be neat and must have your name, class and assignment name on the first page. Turn in neat, typeset solutions. In doing homework assignments, you are forbidden from referring to any resources other than your own course notes, the class notes or other material suggested by me. In particular, you are not allowed to consult your friends. You are not allowed to use material from previous years of this course, and you are not allowed to use the Internet to "find" solutions.



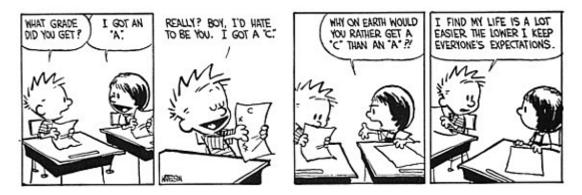
- **Research**: Students must study and critique/create a summary of at least TWO (2) high quality research articles that complement the class material before the midterm. Students will also engage in research and will produce ONE (1) original research article before the end of the semester. More information on these topics will be made available during the course of the semester.
- **Exams**: There are *no exams* in this course.

Grading plan:	Assignments Summary Article Research Paper		50% 20% 30%	(5 Assignments)
	>= 90 >= 80 but < 90	$\begin{array}{c} \Rightarrow \\ \Rightarrow \end{array}$	A B	
	>= 70 but < 80 >= 60 but < 70	$\begin{array}{c} \Rightarrow \\ \Rightarrow \end{array}$	C D	

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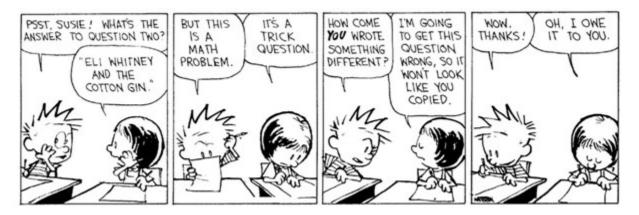
$$< 60 \qquad \Rightarrow F$$

Grade-related questions: It is not possible to provide answers to questions such as the following during the course: "What scores do I have to get for the rest of this class in order to get such and such grade?" "What is the cutoff score for such and such a grade?" "What were the cutoff scores, or what was the grade distribution, in previous years the class was taught?" Late work will not be accepted without a really good justification of the reason for the late work.



Group Work: All assignments and in-class work are individual unless specifically stated otherwise. I will periodically allow work to be completed in groups, but I will specifically indicate which ones. Any violation of this policy will result in a zero on the assignment.

Cheating on homework WILL NOT be tolerated. A grade of "F" for the assignment/course and appropriate disciplinary action will be taken to any student caught cheating.



Course Summary:

After completing the course, you should be able to:

- Understand the classic Orange Book approach to security, and its limitations
- Use operating system security tools and structures--with examples from Windows, Linux, BSD, and Solaris
- Learn how networking, the Web, and wireless technologies affect security
- Use best practice techniques for authenticating people and computer systems in diverse settings
- Use validation, standards, and testing to enhance confidence in a system's security
- Discover the security, privacy, and trust issues arising from desktop productivity tools
- Understand digital rights management, watermarking, information hiding, and policy expression
- Understand the potential of emerging work in hardware-based security and trusted computing

Tentative Course Outline: (Subject to changes as the semester progresses) (Sunday is the end of a week)

Week #	Lesson Title	Assigned Readings and Assignments
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1 and 2 08/23-09/03	Welcome and Introduction to DFSC 5325 Getting Oriented with Blackboard & the course Reading Material as posted on Blackboard	Assignment 1 Due on 09/03
3 and 4 09/04-09/17	Reading Material as posted on Blackboard	Assignment 2 Due on 09/17
5 and 6 09/18-10/01	Reading Material as posted on Blackboard	Assignment 3 Due on 10/01
7 and 8 10/02-10/15	Reading Material as posted on Blackboard Identify Research Project/Topic to work on	Assignment 4 Due on 10/15
9 and 10 10/16-10/29	Reading Material as posted on Blackboard Begin Work - Research Paper Summary/Critique	Assignment 5 Due on 10/29 Research Topic Due on 10/29
11 and 12 10/30-11/12	Finish work - Research Paper Summary/Critique Begin Work - Research Paper	Paper Summary/Critique Due on 11/12
13 and 14 11/13-11/26	Work on Research Paper	Preliminary Draft due 11/26
15 and 16 11/27-12/07	Complete Research Paper and Submit	Due: Last Class day, 12/07

Note: Your research articles summary and research paper do not have to be independent activities. You are welcome to extend your articles summary to a project and then extend that to a research paper. I warmly welcome you all to this course and hope that you will learn much from it and enjoy it thoroughly. My only request is that you are prepared to work hard and sincerely.

Email: Email communication is naturally the best way to communicate with me. Please understand that I will not respond to Email that does not follow appropriate etiquette. At a minimum, your email must include your name, and specifics of your question. It must not include common IRC chat lingo or shorthand. If your email does not conform to the above mentioned minimum requirements, then your email will not be answered. I will try to respond to your emails promptly.

Blackboard will be the only source of all course related material including homework problem sets and additional notes. Please familiarize yourselves with the course environment. While I will try to provide all the prerequisite foundations materials required for the course, students are expected to possess a certain level of computing maturity and the desire to learn new concepts and naturally willing to work hard in this process to succeed in the course

Additional goals supported by this course include: a) developing a strong technical foundation in the computational sciences, b) an understanding and sensitivity for security and professional ethics, c) appreciation for the need to pursue professional and related learning activities for life. Students are expected to: a) employ critical thinking in seeking optimal problem solutions, b) maintain and increase their professional knowledge/skill sets, c) develop their ability to express their skills using tools and related analysis techniques and d) to extend the discipline through original cognitive processes.

Course Plan Instructional Methods

This course is designed to promote learner-centered activities and support the development of cognitive strategies and competencies necessary for effective task performance and critical problem solving. The course utilizes individual and some group learning activities, performance-driven assignments, problem-based cases, projects, and discussions. These methods focus on building engaging learning experiences conducive to development of critical knowledge and skills that can be effectively applied in professional contexts.

Suggested Learning Approach

In this course, you will be studying individually and within a group of your peers. As you work on the course deliverables, you are encouraged to share ideas with your peers and instructor, work collaboratively on projects and team assignments, raise critical questions, and provide constructive feedback.

Use the following advice to receive maximum learning benefits from your participation in this course:

DO	DON'T
 Do take a proactive learning approach Do share your thoughts on critical issues and potential problem solutions Do plan your course work in advance Do explore a variety of learning resources in addition to the textbook Do offer relevant examples from your experience Do make an effort to understand different points of view Do connect concepts explored in this course to real-life professional situations and your own experiences 	 Don't assume there is only one correct answer to a question Don't be afraid to share your perspective on the issues analyzed in the course Don't be negative towards the points of view that are different from yours Don't underestimate the impact of collaboration on your learning Don't limit your course experience to merely reading the textbook Don't postpone your work on the course deliverables – work on small assignment components every day

Class participation

In accordance with University Policy (http://www.shsu.edu/students/guide/polpro/attendance.html), regular attendance is required; however, no points will be awarded or subtracted based on your attendance. You are responsible for all material covered in every class, regardless of whether you attended or not. It is your responsibility to obtain notes, assignments, etc., from fellow class members if you miss a class.

Academic dishonesty

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The university and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials. No cheating on an examination or assignments is allowed. A score of zero will be given to the student if such a case occurred.

Rules of conduct

Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Please turn off or mute your cellular phone and/or pager before class begins. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking among each other at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a, minimally, a directive to leave class or being reported to the Dean of Students for disciplinary action in accordance with university policy.

Americans with Disabilities Act

According to University policy requests for accommodations must be initiated by the student. A student seeking accommodations should go to the Counseling Center and Services for Students with Disabilities (SSD) for instructions.

Religious Holidays

An institution of higher education shall excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.