Syllabus
CS 4593 AT: Penetration Testing
CS 5463 Topics: Penetration Testing
Summer 2018

Instructor: Ali Şaman Tosun
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Office: NPB 3.310
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Class Time: Monday, Wednesday 4:00pm-5:55pm
Class Location: NPB 1.238
Class Webpage: http://www.cs.utsa.edu/~tosun/TEACHING/CS4593CS5463SU18
Office Hours: Monday, Wednesday 3:00pm - 4:00pm

Textbook: Penetration Testing: A Hands-on Introduction to Hacking
Georgia Weidman

Objectives: In this course you will
1. Get a solid understanding of the Penetration Testing Process
2. Learn to use different open source tools to aid penetration testing
3. Learn how to test web applications for vulnerabilities
4. Learn to use Metasploit framework to launch exploits

Prerequisites: CS 3423: Systems Programming

Topics: Chapter 1: Setting Up Your Virtual Lab
Chapter 2: Using Kali Linux
Chapter 3: Programming
Chapter 4: Using the Metasploit Framework
Chapter 5: Information Gathering
Chapter 6: Funding Vulnerabilities
Chapter 7: Capturing Traffic
Chapter 8: Exploitation

Grading: Based on Curve
Laboratories: 20% (around 5)
Final project: 20%
Quizzes: 10% (around 10)
Midterm: 20% July 9, Monday
Final: 25% August 14, Tuesday at 1:30pm
Intangibles: 5% Attendance, Course Evaluation etc.

Make-up exams are given only under certain extenuating circumstances. Late homeworks are not accepted.

A student who misses, without prior approval by the instructor, half or more of the lectures during the first two weeks will be dropped from the course.

This Syllabus is provided for informational purposes regarding the anticipated course content and schedule of this course. It is based upon the most recent information available on the date of its issuance and is as accurate and complete as possible. I reserve the right to make any changes I deem necessary and/or appropriate. I will make my best efforts to communicate any changes in the syllabus in a timely manner. Students are responsible for being aware of these changes.