

Web Security



University of Wisconsin-Parkside

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COURSE DESCRIPTION

This course introduces the student to the basics of Web Security. The field of computer security is, in general, one of the hottest topics in Computer Science. E-Commerce systems are now extremely common. These systems are critical to the operation of many of today's businesses from Wal-Mart to IBM. As these systems become more and more prevalent, the temptation to abuse these systems becomes greater and greater. This course will focus on the hacker and the security holes exploited by the attacker. The heart of this course is to show and explain the real-world exploits/hacks so that you, as a security minded professional, can spot and eradicate the security breaches.

REQUIRED TEXT AND MATERIALS

McClure, Stuart; Shah, Saumil; Shah, Shreeraj, Web Hacking: Attacks and Defense, Addison Wesley/Pearson Education, 2003, ISBN: 0-201-76176-9.

COURSE FORMAT

Lecture. The lecture will expand on and highlight material in the textbook. In addition, this is a self-directed course that requires the student to *read the textbook and practice the exercises at the end of each chapter*. It is imperative that the student read the assigned material so that the student will be prepared for lecture. The lecture may or may not include all the material presented in the chapter(s). However, *students are responsible for all material within covered chapter(s)*.

Each class, whether lecture or lab, will begin with a question/answer period. This is where students can ask questions regarding the previous assignment or any other issues that may have arisen since the last class meeting. Of course, *you are encouraged to ask questions during class!*

ACADEMIC PREFORMACE

Accomplishment Levels. Your level of accomplishment will be recognized at the end of the course with a letter grade. Individual accomplishment is measured against course standards and not against the performance of other students.

Grades. Your final grade will be determined by a final examination at the end of the class. This examination will be administered remotely.

COURSE SPECIFICS

Attendance. Attendance to lectures is mandatory and expected. If you miss a lecture due to some unforeseen circumstance, it is your responsibility to make up the missed material.

Communication. All course communication will be accomplished in one of two ways: announcements during lecture and electronic communication. *Email* is the best way to communicate with your instructor outside of class. When using email, please include the following marker in the subject line: [WEBSECURITY]. This marker shows that the email is from this class and will help me fight spam. If you do not include the marker, *I may delete the email without looking at it!*

General

Academic Misconduct and Cheating. In this course, you are encouraged to study and prepare for lecture and labs with other students. However, when taking examinations, quizzes or working on individual assignments, you are to work alone. I will tell you if you are to work as a team. *University regulations are very explicit concerning academic misconduct and cheating.* These regulations will be fully enforced. During examinations, we will apply a “Code of Honor” under which you are to work; you should neither give nor receive help from other sources. You are also expected to help enforce this code.

The class policy on cheating is simple: if your work is turned in by another student, or if you turn in the work of another person or persons, all students involved will receive a zero on that assignment. Should you cheat again, I will fail you for the entire class. I take academic dishonesty very seriously and I expect you to take it just as seriously. UWS 14.03 defines what academic misconduct is and what the penalties can be for academic misconduct.

The bottom line: Do your own work. If you have any doubts, please talk to me – before you do anything you might regret.

Students with a Disability. Anyone who has special needs that must be accommodated to fulfill the course requirements should notify the *instructor*.

Accommodation of Religious Observances. UW Parkside Senate policy requires that this institution make reasonable accommodations for a student’s religious beliefs. *Please notify your instructor within the first two weeks of class about any scheduled class date(s) that conflict with a religious observance.*

Food and Drink in Class. Beverages and food are allowed in class as long as I do not have clean up after you. This is a privilege that I will revoke if I end up having to be your mother. Please practice a “carry in – carry out” policy.

Cellular Telephones and Pagers in Class. I find it very distracting, and quite frankly rude (as I’m sure other students do), when a ring tone goes off during class. As a courtesy to the instructor and other students, please either turn your cellular telephone or pager off or disable the ring tone during lecture and lab. If you must use the phone, please leave the classroom or lab and go to a place that will not disturb other students: use your cellular phone courteously.