Course Syllabus Part II
CYBR 430, Penetration Testing and Incident Response

Course Resources

Course Text:
Hacker Techniques, Tools, and Incident Handling; Sean-Philip Oriyano, Michael G. Solomon; 3rd ed; Jones & Bartlett Learning; 2020
Available from the Bellevue University Bookstore

Required Resources:
Computer capable of running virtual environment such as virtual box or vmware

Course Schedule

Week Number	Topic	Reading
1	Ethics and legal considerations Penetration test goals, methodology and reports Building a Test lab	Chapters 1, Review Ch 2, 3, 12 Outside reading
2	Using Open Source Intelligence	Chapters 4, 5, 13
3	Gaining network access	Chapter 4, 8, 15
4	Footprinting, Enumeration, and Vulnerability Scanning	Chapters 6, 7
5	Scripting languages for Penetration Testing	Outside reading
6	Password and Server Attacks	Chapter 7, 9 Outside reading
7	Retaining access (malware, backdoors, and staying hidden) and Incident response	Chapters 7, 10, 14, 15
8	Risk Analysis and System Hardening	Chapter 15 Outside reading
9	Review and Final Report	All previous material

Grade Breakdown/Criteria

Grade Component:	Total Points
Syllabus Quiz	3
Discussion board original posting (15 pts/week, 9 weeks)	135
Discussion board participation (15 pts/week, 9 weeks)	135
Labs and written assignments (50pts each, 11 labs/assignments)	550
Pentest journal	100
Final Penetration Test Report	100
Total	1023

Effective Date of Syllabus:

Assignments and class participation are assigned points. Grades will be posted before the next week begins. You can view a summary of your grades in My Grades. Please notify your instructor as soon as possible if you see any errors in your grade summary. It is always easier to fix errors early rather than late in a course.

Late Work
It is very important to keep up with your work and with your participation in the course. Pay special attention to the due dates of the various items that will be graded. Late work is generally not accepted unless PRIOR arrangements are made with the instructor for special circumstances. Late work will normally have at least a one letter grade deduction. The professor has the right not to accept any late work.

Participation
Students are expected to login to the system and contribute to the class on a regular basis. Students must login to the class at least twice each week and contribute to the class discussions. See the specific assignments and due dates in the Assignments area for more details. It will be assumed that students have dropped the course if they do not participate and they do not notify the instructor.

Expectations for Students
- Students should expect to spend approximately 14 hours per week to complete the activities and assignments in this course.
- Students will log in as often as needed to complete their assignments and progress through the course.
- Students will treat their classmates and the instructor with respect and courtesy.
- Students are responsible for keeping current with the reading assignments and coming to class prepared to discuss the work assigned.
- Students are responsible for knowing what assignments are due and when.
- Students will submit only their own work and will not commit plagiarism or other acts of academic dishonesty.
- Students will contact the instructor as soon as personal problems arise that may affect the student's ability to complete assignments on time.

Expectations for Faculty
- The instructor will treat all students with respect and courtesy.
- The instructor will make grading criteria clear and follow the criteria scrupulously in evaluating student work.
- The instructor will provide feedback about student work within 7 days of due dates.
- The instructor will respond to student inquiries (email, voice messages, etc.) within two business days (48 hours excluding holidays and weekends.

Communications with the Professor
Instructor contact information is in the Faculty Contacts area of the course.

Good communication is always a key to success in education. Please feel free to ask general questions about the course and assignments in the discussion boards. Feel free to contact me via email or telephone with private concerns. I look forward to the class, and I look forward to working with you and your fellow students as we learn more about how this area applies to cybersecurity.

Please use the discussion boards for general questions about the course or assignments. If you have a question, then it is likely that other students have similar questions. A discussion posting is roughly the equivalent of raising your hand in the classroom. Tip: Start a new thread and use the word 'question' or 'help' in the subject line. If you have a personal question, suggestion, or problem to resolve, then use email or schedule a visit during office hours.