

**Bergen Community College**  
**Division of Business, Math & Social Science**  
**INF-271 Ethical Hacking: Penetration Testing**  
**Information Technology**

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**Course Title:** INF-271 Ethical Hacking: Penetration Testing

**Credits/Hours:**

3 credits/2 hours lecture, 2-hour lab.

**Course Description:**

**INF-271 Ethical Hacking: Penetration Testing** investigates the techniques used by malicious, black hat hackers to attack and penetrate a network. Students will learn to use these same hacking techniques to perform a white-hat ethical hack on the organization. Quantitative assessment and measurement of threats to information assets to determine where the organization is most vulnerable to hacking will be covered. 2 lecture, 2 lab, 3 credits

**Prerequisites:**

INF-160 and INF-267 OR INF-170 OR permission of Department Chair

<b>Student Learning Objectives:</b>	<b>Assessment Measures:</b>
Perform an Ethical Hack on the organization's network	Lab activity/exam
Document the penetration testing and use information obtained to secure the network	Lab activity/exam
Perform a vulnerability analysis on Windows	Lab activity/exam

**Textbooks and Supplies:**

See course outline

**Course Content:**

See Course Outline

**Assessment:** An average of 60% from combined assessment measures is required to demonstrate proficiency in course material.

Exam 1	25%
Exam 2	25%
Exam 3	25%
Lab Exam	25%

**Laboratory Work:**

Laboratory assignments are hands-on productions that show the instructor that the student can competently use specified software. It is important that the student attend all lab sessions. The student should read the scheduled assignment in the text prior to coming to lab class.

It is anticipated that students will spend at least 4-hours per week in the free-time computer room perfecting their skills and completing their lab assignments. The lab assignments are required for grading. They must be submitted as the student enters the lab on the assignment due date, and cannot be handed in late. Certain lab assignments will be given and completed during one lab session. In this case, the student must submit the assignment upon exiting the lab. Laboratory assignments that were not collected before the end of lab must be completed during free time.

Lab assignments cannot be done any time other than when they are scheduled; therefore, the lowest lab grade will be dropped when calculating the student's final average. The student will not be permitted to pick up where he/she left off during the prior session when entering the next scheduled lab.

#### Homework:

In addition to any homework assignment given during class, it is a standing assignment that the student read each chapter of the book prior to its discussion. Following the class discussion, the student should reread the material and work with the exercises throughout the text. It is anticipated that students will spend at least 4-hours per week reading the text and working with the exercises and supplemental resources.

#### Policies:

- Lateness – The roll will be taken at the beginning of class. If the student is not in attendance at that time, he/she will be carried in the roll book as being absent unless the instructor is notified immediately after class. Attendance sheets cannot be adjusted at following class meetings.
- The student must adhere to all college policies. Due to the nature of this course, it is recommended that the student review the policy titled "Acceptable Information Technology Use at Bergen Community College".
- The use of portable electronic devices such as pagers and cell phones is not permitted while class is in session. Please be sure to silence electronic devices before entering class.
- The use of audio CD or tape players, radios, and college computers to play music during class is prohibited.
- Students are expected to demonstrate listening, reading, note taking, and writing skills. The student will need to take notes during class discussions and understand and follow verbal and written directions. All assignments and correspondence with the instructor (including e-mail) must be well written in full sentence format. Proper paragraph format must be used for all postings to the student bulletin board (if applicable).
- The subject line of all e-mail correspondence to the instructor must contain the course number and section and student's name. Any e-mail received without this information will not be opened.
- Plagiarism in any form will be treated as a failure to complete an assignment. All work submitted should reflect individual effort by the student.
- In borderline cases that arise in almost every class each semester a student's attendance, class participation, attitude, and observed effort will be considered in helping to determine the student's final grade.

If the instructor does not appear after 20 minutes following the scheduled time, students should generate an attendance list. One volunteer member need deliver the list,

containing the course title, date, and instructor's name, to the Evening Office L-113 or to the Divisional Office (during the day) A-306C.

Additional policy and assessment information may be distributed by individual instructors.