CSEC2210 - Security Breaches and Countermeasures

Credits:	3 (2/1/0)
Description:	This course introduces the student to the various methodologies for attacking a network. The student will be introduced to concepts, principles and techniques, supplemented by hands-on exercises for attacking and disabling a network. The course will emphasize network attack methodologies with the emphasis on student use of network attack techniques and tools.
Prerequisites:	• CPTR2236 OR • CSEC1110
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Describe threats to and vulnerabilities of systems. 2. Perform risk management functions. 3. Plan a security assessment using current practices. 4. Perform a security assessment using current practices. 5. Utilize current tools to assess network security. 6. Conduct a penetration test using current practices. 7. Employ information reconnaissance techniques. 8. Conduct an IT audit using current best practices. 9. Implement countermeasures for networks. 10. Complete written documentation of threats. 11. Evaluate methods of non-network methods to gain network access. 12. Analyze methods used by attackers to avoid detection. 13. Conduct attacks on a controlled network. 14. Demonstrate ethical behavior.
MnTC goal areas:	None

**Can be taking as a Prerequisite or Corequisite.*

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