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:	 Describe threats to and vulnerabilities of systems. Perform risk management functions. Plan a security assessment using current practices. Perform a security assessment using current practices. Utilize current tools to assess network security. Conduct a penetration test using current practices. Employ information reconnaissance techniques. Conduct an IT audit using current best practices. Implement countermeasures for networks. Complete written documentation of threats. Evaluate methods of non-network methods to gain network access. Analyze methods used by attackers to avoid detection. Conduct attacks on a controlled network. Demonstrate ethical behavior.
MnTC goal areas:	None

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