

# Curriculum Approval and Review

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# CSEC2222 - Network Security Design

## Revision summary

Authors

Dr Eric Wilkens

Requested start date

10/01/2012

Status

**Approved** on November 14th, 2012 at 11:08 AM

## Course summary

Type

Career

Repeatable for additional credit?

No

Discipline

Computer Careers

Status

**Active**

Delivery methods

Campus

Start date

11/28/2006

Credits

3 ( 2/1/0 )

End date

N/A

## Rationale

Changing one of the prerequisites to a corequisites based on when the course is offered. No other changes to the course.

## Description

This course will give the student the opportunity to conduct a vulnerability analysis on a network in order to practice or refine the attack methodologies with the hacker tools and techniques that the student was exposed to during the various program courses. The student must demonstrate the ability to design, plan and execute a vulnerability analysis against an organization network. The student must prepare a written report and mode of the security design, attack methodology, tools and techniques.

## Pre-requisites

[CSEC2204](#)

## Co-requisites

[CSEC2210](#)

## Competencies

- Identify components of network security planning.
- Describe components of systems life cycle management.
- Conduct a network vulnerability analysis using current best practices.
- Implement a computer network.
- Construct a secure network framework.
- Implement security countermeasures using current best practices.
- Demonstrate ability to secure a network client to current best practices.
- Demonstrate ability to secure network resources to current best practices.
- Demonstrate ability to secure network server to current best practices.
- Implement a demilitarized zone.
- Demonstrate ethical behavior.

## Revisions

**Date****Status****Title**

Date	Status	Title
11/14/2012	Approved	Network Security Design
05/17/2011	Approved	<a href="#">Network Security Design</a>
N/A	Approved	<a href="#">Network Security Design</a>

## Affected programs

Credential	Title
AAS	<a href="#">Computer Network Security</a>
AAS	<a href="#">Network Administration and Security</a>

Minnesota State  
Community and Technical College

M | State  
One College. Four Campuses. Online.