

Network Security Fundamentals – ITT-2020-01
Course Syllabus
Fall 2011



A Community and Technical College
Information & Telecommunications Technology

Course Title: Network Security Fundamentals

Course Number: ITT-2020-01

Credits: 3

Phone: 651-

Email: Tom.Prescott@century.edu

Instructor: Thomas Prescott

Course Time: 2:15-4:45 M & W

Office Hours: 4:30 - 5:30 T & by APPT
1:00 - 2:00 T

Course Description:

This course covers the overall security process based on security policy design and management, with an emphasis on security technologies, products, and solutions. The course covers authentication, authorization, and accounting (AAA) implementation using routers and security appliances and securing the network at both Layer 2 and Layer 3 of the OSI reference model.

Resources:

The course content and the laboratory experiments are online. The official course grade book and records are at: <http://cisco.netacad.net> the curriculum is online Century at: <http://ITT.century.edu> (Text book version both paper and electronic available.) Labs are at: <http://Centurylab.Century.edu> and on the S: Drive

Grading:

Final Exam	=	05%
Skills Based Assessment	=	05%
Online Tests/Quizzes	=	40%
Lab Assignments/Homework	=	50%

Topical Outline:

- Vulnerabilities, Threats, and Attacks
- Security Planning and Policy
- Security Devices
- Trust and Identity Technology
- Cisco Secure Access Control Server
- Trust and Identity at Layer 3
- Trust and Identity at Layer 2
- Router filtering
- PIX security appliance filtering
- Switch filtering

Late Work: NO LATE WORK ACCEPTED!

Attendance: Students not in class can't participate in class discussions and are missing an important component of the educational process. Homework and assignments will be given during class. Students not in class may not have a clear understanding of assignment content and due dates. Attendance is the responsibility of the student, when working in groups students need to consider the impact on their group when they are unable to attend.

Academic Honesty: The primary academic mission of Century College is the exploration and dissemination of knowledge. Academic honesty and integrity are integral to the academic process. Academic dishonesty-cheating, plagiarism, and collusion-are serious offenses, which undermine the education process and the learning experience for the entire college community. It is expected that Century College students will understand and adhere to the concept of academic integrity and to the standards of conduct proscribed by the College's Policy on Academic Honesty. It is expected that students will assume responsibility for their work and that materials submitted in fulfillment of course, program, and college academic requirements must represent students' own efforts. This is a zero tolerance class students that are identified as having engaged in academic dishonesty will be given an F for the assignment and may at the instructors discretion be given an F for the course. In addition, the information will be forwarded to the Dean for possible additional sanctions.

Students Right to know:

The "Right to Know" booklet, which contains policies on Harassment and Discrimination, Crime Awareness and Campus Security Report, Drug and Alcohol Free Campus, Student Conduct and Academic Honesty, is available at the college entrances, in the Counseling Center, West Campus and at new student registration. Call these phone numbers if you see or experience the following: harassment or discrimination, contact an investigator at (651) 773-1795; criminal acts, drug or alcohol violations, call Campus Security at (651) 402-3633; student conduct or academic honesty violations, call the Student Conduct Officer at (651) 779-3244. Training on these policies is provided. Call (651) 779-3929 for more information.

Access/Accommodations:

"Reasonable accommodations will be provided for students with physical, sensory, cognitive, systemic, and psychiatric disabilities. Please contact the instructor to discuss accommodations for this course." Referral may also be made to the Disability Access Center, room 2440 West Campus, (651) 779-3355.

THE INSTRUCTOR RESERVES THE RIGHT TO CHANGE ANY PORTION OF THIS SYLLABUS AT ANY TIME.