

Presentation for 2008



ECC'S DEVELOPMENT AND IMPLEMENTATION OF INFORMATION SYSTEMS SECURITY CURRICULUM

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Configuration of the PEN



ECC ISS Certificate

- (4) Programming fundamentals could be any **programming** course
- (4) Networking
- (4) DA 107 Intro to Information Systems Security FIRST course in ISS seq
- (4) DA 200 Computer and Network Security pre req (Intro ISS)
- (4) DA 201 Operations and Database Security pre req (Intro ISS)
- (3) DA 202 Legal Ethical, Regulatory Framework

ECC ISS Certificate continued



- (4) Mandatory Elective..one of the following courses
 - DA261 Database
 - DA180 E-Commerce
 - CS 209 Java Programming
 - CS 215 Web Development & Programming
 - MT167 Discrete Math
 - DA240 Systems Analysis
 - DA290 Management

ISS Certificate



- (2) optional elective..Internship DA 203 ISS Internship
- TOTAL CREDITS 27 - 29 this would allow 1 year full-time days, or 2 years, PT nights..also allows some flexibility re: an internship

Components of PEN

- Components of The PEN :
- A cart with teaching station and projector
- Multiple laptops
- Various servers; Windows 2003, RedHat Fedora, Novell Suse 9
- Cisco wireless access device for W-LAN capability
- Cabling to connect the various parts
- Networking components to integrate the laptops and servers for demonstrations

The PEN again!



Flyer for a course



SUNY **ECC** ERIE COMMUNITY COLLEGE
STATE UNIVERSITY of NEW YORK

INFORMATION SYSTEMS SECURITY COURSE

- Is your computer as secure as you think it is?
 - Interested in a career in Computer Security or Cybercrime Detection?
- Then this Course is for YOU!



ISS PEN—Portable Education Network

Fall 2005 New Course Offering
DA998 51 - Introduction to Information Systems Security
North Campus T-Th 5:30 - 7:45 PM
Prerequisites: MT125, EN110, Programming & Networking Competency

Learn how to:

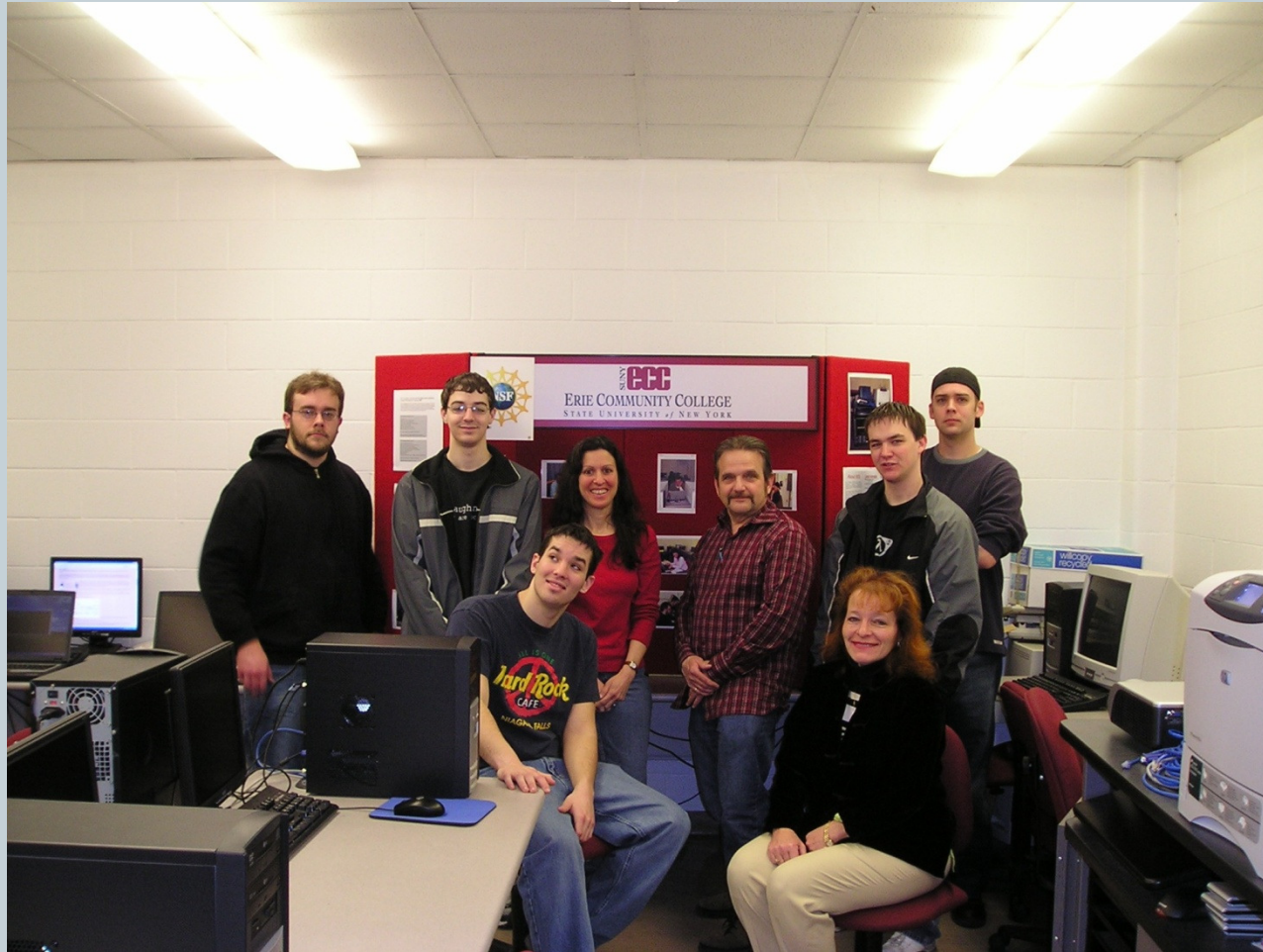
- Run standard security scans
- Setup firewall software
- Set up intrusion detection, access control and other security tools
- Run cryptographic software

*Instructor permission is required to register.
Contact Dr. Donna Kaputa (kaputa@ecc.edu) for further details.*

Some DA 107 class members



Security classroom



Toni, Louise, Donna at ATE conference Oct 2006 Washington, D.C.



Some Recent Accomplishments



- **January 2008**

Conference/Careerfest for
High School Teachers
and Students held at ECC

Jan 2008 Conference for High School Students & Teachers

Conference Registration -- Main Menu - Mozilla Firefox

http://wnt.ecc.edu/issworkshop/student/member.php

ECC **ISS Career Conference** **UB**
Sponsored by The National Science Foundation

Conference Registration -- Main Menu

Welcome suzy queue !

Please select from the following:

- Conference Schedule and Registration

Please use the menus to navigate this site. Using your back button could produce unpredictable results

[Change account information](#) | [Conference Registration](#) | [Withdraw from Conference](#) | [View enrollment status](#) | [Logout](#)

Conference Registration - Mozilla Firefox

http://wnt.ecc.edu/issworkshop/student/workshopschedule.php

ECC **ISS Career Conference** **UB**
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Conference Registration

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Erie Community College, partnered with the University at Buffalo on an NSF grant, has developed an ISS Career Conference for Information Security Systems. The Conference will provide career information in the field of Information Security.

The Conference schedule is listed as follows, use the check boxes to register. Please be sure to choose only one Conference section.

NOTE: ONLY SELECT ONE CONFERENCE SECTION, THE CONFERENCE SECTIONS ARE ALL THE SAME ONLY DIFFERENT TIMES

Note*: The number in the parenthesis indicates the current available seats. If you select a workshop with no availability, you will be added to the waiting list.

Conference Description	Check one session if desired
<p>Conference #1 ISS Career Conference for HS students</p> <p>Part 1</p> <ol style="list-style-type: none"> 1) Overview of computer security 2) Overview of ECC's Portable Education Network (PEN) 3) Security Training at ECC 4) Why Information Security is one of the hottest jobs today! 5) Who is really sending you that email 6) Hands-on lab session <p>Part 2</p> <p>Question and Answer Session</p>	<p><input type="checkbox"/></p> <p>Choice #1: (26)</p> <p>Date/Time: 01/07/2008 4:00 - 6:00pm Jan.7, 2008 rm. K233 (pink time block) 01/09/2008 6:00 - 8:00pm Jan. 9, 2008 rm K100 (blue time block)</p> <p><input type="checkbox"/></p> <p>Choice #2: (24)</p> <p>Date/Time: 01/07/2008 6:00 - 8:00pm Jan.7, 2008 rm. K233 (lime time block) 01/09/2008 6:00 - 8:00pm Jan. 9, 2008 rm K100 (blue time block)</p>

INFORMATION SYSTEMS SECURITY 2008 SECURITY CONFERENCE FOR HIGH SCHOOL TEACHERS AND GUIDANCE COUNSELORS



Where: ECC North Campus
Part 1: January 8, 2008
Room K233
4:00 pm — 5:30 pm
OR
5:30 pm — 7:00 pm
Part 2: January 9, 2008
Room K100
6:00 pm — 8:00 pm
Cost: A \$100 stipend will be
provided upon completion of
Parts 1 & 2

**Pizza & Pop will be provided
on both days**

Part 1:

- Overview of computer security
- Overview of ECC's Portable Education Network (PEN)
 - Security Training at ECC
- Why Information Security is one of the hottest jobs today!
- Who is really sending you that email
 - Hands-on lab session

Part 2:

Roundtable Q&A with
Security Professionals

**All High School Teachers and
Guidance Counselors are Welcome**

**Seats are Limited
Registration Begins 12/10**

<http://www.isscert.com>

Sponsored by



National Science Foundation
WHERE DISCOVERIES BEGIN

Area High School Teachers



Jan 08 conference for High School Teachers



Security professionals at Jan Conference



Security professionals Jan 2008





- ISS student featured in
ATE

National publication

ATE PROJECTS IMPACT

Partners with Industry for
a New American Workforce

ATE PROJECTS

Learn more about the ATE Projects featured
in the *ATE Projects Impact* publication by
downloading the pages below.



Certificate Program Informs Computer Security Personnel to Prevent Cyber System Attacks

The Information Systems Security (ISS) certificate program provides students with the core skills they need to take on information security leadership roles at the organizations and companies that employ them. Erie Community College (ECC) developed the four-course certificate program and offers workshops for high school educators with ATE grant support. Its partner on the project is the Center of Excellence in Information Systems Assurance Research and Education at the State University of New York–Buffalo (SUNY-Buffalo).

The ISS courses teach students to identify cyber security risks and other threats to computer systems. Students develop working knowledge of the various laws governing computer security and ways to comply.

Laboratory sessions in a dedicated laboratory at ECC emphasize real-world systems, tools, and techniques. Students are encouraged to get inside hackers' minds to identify system vulnerabilities. Laboratory exercises cover network reconnaissance, intrusion detection, firewall configurations, access control, and password cracking.

The workshops and roundtables convened jointly by ECC and SUNY-Buffalo bring together key stakeholders in Western New York to consider an array of computer security issues in academic and business environments. Summer workshops for high school teachers offer insights on how to prepare students for careers in this high-demand field.



An ECC student completes an intrusion detection exercise in a college laboratory dedicated to cyber security instruction.

**Information Systems Security (ISS)
Curriculum Development**

**Erie Community College (ECC)
Williamsville, NY**

www.isscert.com

CYBERWATCH



- First College in NY state to become a member in CyberWatch which is a Consortium of colleges which are involved in security Curriculum development, headquartered in VA.



Welcome

Upcoming Events:

- :: The Colloquium for Information Systems Security Education (CISSE) - June 2-4 - Dallas, TX
- :: League for Innovation in the Community College - Learning College Summit - June 8-11 - Overland Park, KS
- :: Cisco Networking Academy Job Opening
- :: 3rd Mid-Atlantic Regional Collegiate Cyber Defense Competition (CCDC) - Congratulations to the Community College of Baltimore County - 1st place

CyberWATCH is funded by a grant from the National Science Foundation (NSF)



:: Links

- CyberWATCH Presentation
- Information Security Education:
 - : Collegiate Cyber Defense Competition
 - : Courseware Mapping
 - : Degrees
 - : K-12
 - : Modules
 - : Problem-Based Case Studies
 - : Virtual Lab
- Professional Development:
 - : Conferences
 - : Faculty Graduate Program
 - : Workshops
- Career Pathways:
 - : Models for Articulation
- Dissemination and Sustainability:
 - : Interim Reports
 - : Newsletters
 - : Program Evaluation

:: CyberWATCH

- About
- Advisory Board
- Partners
- National Visiting Committee (NVC)
- Vision Statement and Goals

Contact Us



CyberWATCH Partners

CyberWATCH Partners:

:: Community Colleges:

- Anne Arundel Community College
- Chesapeake College
- College of Southern Maryland
- Community College of Baltimore County
- Erie Community College, NY
- Hagerstown Community College
- Harford Community College
- Howard Community College
- Montgomery College
- Northern Virginia Community College
- Prince George's Community College

:: Universities:

- Bowie State University
- Capitol College
- George Mason University
- George Washington University
- Johns Hopkins University
- Towson University
- University of Maryland College Park
- University of Maryland University College

:: Public/Private Supporters:

- Assured Decisions, LLC.
- Cisco Systems, Inc.
- The Computing Technology Industry Association (CompTIA)
- Computer Associates, Inc.
- Computer Sciences Corporation
- Cyber Innovation Center
- Department of Homeland Security
- GSX
- Information Assurance Technology Analysis Center
- Lockheed Martin Corporation

:: Links

- [Information Security Education](#)
- [Professional Development](#)
- [Career Pathways](#)
- [Dissemination and Sustainability](#)
- [Security Awareness](#)
- [Home](#)

Our first ISS Certificate graduates May 2008

