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
(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 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

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!

Fall 2005 New Course Offering
DA998 51 - Introduction to Information Systems Security
North Campus T-Th 5:30 - 7:45 PM
Prerequisites: MT125, EN119, 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
INFORMATION SYSTEMS SECURITY
2008 Security Conference For
High School
Teachers and Guidance Counselors

Where:
Part 1:
ECC North Campus
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

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

Pizza & Pop will be provided on both days
Area High School  Teachers
Jan 08 conference for High School Teachers
Security professionals at Jan Conference
ISS student featured in ATE National publication
ATE PROJECTS IMPACT
Partners with Industry for a New American Workforce

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.
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.
Upcoming Events:

- The Colloquium for Information Systems Security Education (CISSSE) - 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 (CDDC) - Congratulations to the Community College of Baltimore County - 1st place

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