

# **Work in Progress: Design and Implementation of a Portable Educational Network to Teach Cyber Security Curricula and Digital Forensics at a Community college**

---

Our project rose from a National Science Foundation grant that challenged us to develop a working curriculum in Information Systems Security. This curriculum was targeted to a community college level. It would distinguish itself with many hands-on exercises and focus on policy development and security education and training. Also, this semester a digital forensics course is being offered to Criminal Justice majors for the first time.

## ***Objectives of the current work***

Our objectives were to develop the ISS Certificate curriculum, disseminate it, develop a website to offer distance learning of the courses, articulate with existing programs in information security, and reach out to high school teachers and students, by conducting workshops in information security. Furthermore, the development and implementation of a digital forensics course has proven to be quite challenging.

We would first have to design and implement a secure network.

## ***Accomplishments to date***

The portable educational network (PEN) consists of several different server types, networking components and laptops which the students use in the laboratory. Our wireless network had to be completely separated from the ECC LAN, this was done by filtering the MAC addresses at the wireless hub.

The following photos are from the classroom and labs of the Introduction to Information Systems Security DA 107 offered Fall 2005 and Spring 2006 at Erie Community College in Williamsville, NY, a suburb of Buffalo, NY.

We have offered several different courses through-out the past several semesters. We have transported the PEN (portable educational network), although not quite as portable as we would like, to the University at Buffalo, for a major consortium with SUNY Buffalo & the FBI last spring.

We have conducted workshops for teachers and students in the summertime. These were quite successful in nature, and served to get our message out to the community about security measures. To date we are pursuing an enhanced digital forensics curriculum in partnership with the Criminal Justice department, at the College. This has been a challenge in of itself, it that most CJ majors have minimal IT experience.

## *Other Accomplishments*

### **Participation in the Joint CyberSecurity Workshop with SUNY Buffalo and the FBI**

Joint Workshop on Cyber Security

**Computer Forensics, Wireless Security, e-Commerce Security and Security Infrastructure Development in the Academic and Business Environment**

**The Joint Workshop recently concluded.**

- Please visit the [presentations](#) page for a list of the presentations that were made during the workshop.
- A [feedback](#) form has been put up. Your input is valuable to us. Please let us know your comments/suggestions for improvement.

**Link Br O** [Some pictures](#) from the event.

[Organizing Committee](#) | [Invited Speakers](#) | [Presentations](#) | [Pictures](#) | [Feedback](#) | [Archive](#) | [Contact](#)

**March 31, 2006**

[Center for Tomorrow](#)

University at Buffalo, North Campus, Amherst, New York, USA

Supported by NSF, FBI, Erie Community College

Hosted by: [CEISARE](#), [University at Buffalo](#)



## *Future Plans*

Future plans include enhancing the website to facilitate podcasts and distance learning. Development of further curricula in digital forensics and implementation of the coursework and labs.