

A Proposal for a Cyber-Security/Homeland Security Program at UW-Platteville

- 1. Create cyber-security and criminal justice journals (open access) for UW-Platteville Faculty, Staff & Students as well as outside scholars to publish their peer-reviewed work and be recognized outside of UWP.**
 - a. I now own the following sites: Journal of Criminal Justice at journalofcriminaljustice.org and journalofcriminaljustice.com Journal of Cyber Security at journalofcybersecurity.org and journalofcybersecurity.com
 - b. These sites will become open access journals for peer-reviewed articles.
- 2. Create an undergraduate and graduate course for cyber-security.**
- 3. Create an undergraduate and graduate course for homeland security** (I have already developed a Special Topics in CJ: Domestic Terrorism course that could easily be turned into an elective course for CJ offered at least once a year.)
- 4. Form Workshops as a Community Outreach Program** to educate law enforcement and private business in cyber-security.
- 5. Create more homeland security and cyber-security courses in the next years.** E.g.:
 - a. Foundations in Homeland Security
 - b. Homeland security preparedness and response
 - c. Advanced Quantitative Methods for Decision Making Under Uncertainty
 - d. Managing Resources and Applications for Homeland Security
 - e. Basic and Advanced Cyber Forensics
 - f. Computer and Information Security
 - g. Information and Cybercrime Seminar
- 6. Develop an emphasis in homeland & cyber security within Criminal Justice.**
- 7. Turn emphasis into a major in homeland & cyber security in the next years.**
- 8. Build a UWP Cyber-Security Center.**

Funding ideas:

I have been able to attract a \$7,000 donation from AT&T. This is not a large grant but I want to point out that I have solicited and secured this money on my own. CJ has received around \$85,000 in donations in the past 8 -10 years so, without the help of UWP and without an established or even a program in progress to advertise, I have secured funds that represents over 10% of the funding CJ has attracted in nearly a decade.

Potential donors & sponsors for our cyber-security and homeland security plans include:

- Private security: ASIS 2012 - Napolitano calls for more private cyber security effort http://www.gsnmagazine.com/node/27219?c=cyber_security
- Banking system: <http://www.dailyfinance.com/2012/09/27/major-banks-hit-with-biggest-cyberattacks-in-history/>
- Medical Insurances: <http://www.zdnet.com/blog/security/medicaid-hacked-over-181000-records-and-25000-ssns-stolen/11432>

According to the Federal Bureau of Investigation's Internet Crime Complaint Center in 2012 the States of Wisconsin, Illinois, and Iowa (the states that represent our Tri-State Initiative) reported in excess of 10,000 high level complaints in the year 2010 alone.

Typically, these crimes are driven to and by business and industry clusters. According to data provided by Michael E. Porter (2012) of the Cluster Mapping Project, the three highest employment markets in our regional area are local commercial services, local health services, and local hospitality services. Crime victimization data suggests that these clusters are often among the most targeted profit based enterprises for cyber- crime. This is significant as these clusters translate into the target markets for victimization and are markets that require educated cyber security and cyber- crime professional graduates. Currently the educational sector in the Tri-State area is not set up to supply the private and public sector with graduates who are educated and trained in cyber-security.

Most of UW-Platteville's Criminal Justice students aspire to work in the public sector, mainly law enforcement, corrections, and forensics. UW-Platteville already has great Criminal Justice and Forensic Investigation programs. In order to maintain this status and respond to the demands of the private and public sector we have to provide homeland and cyber security training. Our cyber-security curriculum will be designed to educate our students in recognizing cyber-criminals, understanding their modus operandi, identifying and articulating what evidence should be seized, and preparing reports that will hold up in court. The curriculum will include the vulnerabilities of our public and private sectors, identifying security concerns and illicit activity, and methods to provide better private and public community and security agency services. Cyber security trained personnel provide a liaison between the more technical cyber community and traditional law enforcement agencies. Without these trained liaison personnel cyber-criminals will continue to enjoy their head start and the problem will escalate. With this specialized training our graduates will be able to better recognize and pursue the perpetrators of cyber-crime, they will be better equipped to educate businesses and industry in ways to prevent future attacks and with a deeper understanding of this increasingly disruptive new form of crime will be better prepared to navigate legal and technical obstacles to convictions.

I have been talking to other potential donors who are very interested in my professional plans. It would be helpful to show those investors that UW-Platteville is behind me in the endeavor to

build a homeland/cyber security program. It is difficult to do so when I am expected to teach full load on a low base salary. In order for me to make the same as the base salary of an assistant professor in our business department I have to teach overload in spring, fall & winterim. Additional to my teaching load I advise around 80 advisees each semester and I supervise and mentor an average of 4 students in directed studies (unpaid) for undergraduate research. Giving me needed support will show potential donors that the school stands behind my plans. I will need release time from some of my teaching, or higher pay so I won't need to teach overload, to allow me to do an excellent job in starting a cyber-security program. I would like to continue to mentor undergraduate students in research and facilitate graduate seminar papers to give our school more credibility in research and producing graduates who can meet the new demands of the private and public sector.

Panel 16 at the Midwestern Criminal Justice Conference in Chicago, Sept. 2012, was a Roundtable on the topic Are You Ready for Your Next Career? With panelists from 4 different universities (including a dean & provost), a Career Education Corporation, and two FBI agents/Crime Analysts). The panelists urged the audience to realize that Homeland Security and Cyber Security are the most pressing issues in Criminal Justice. They also emphasized that an education in CJ or FI is not as important as developing expertise in sought after fields. One of the FBI agents informed the audience that they are less interested in CJ/FI graduates as they can teach these skills in the academy and in in-service training. "Special skills will get you a job" (Robert Kowalski, SSA with the FBI for 20 years, Director of Security for Career Education Corporation in Schaumburg, Ill, Secretary of Infragard, a collaboration for infrastructure protection). Our students listened carefully and are now very motivated to pursue the skills that the public and private sectors are currently seeking. Our student association, the CJA, are also in support of a Cyber & Homeland Security program and offered their help in pursuing this plan.

So far I have fully developed the following *four* new courses, completely revised *two* courses and am in the process of developing another course at UWP (all unpaid) showing that I am capable of developing and teaching top notch courses and that I have skin in this game.

- I. Special Topics: Behavioral Profiling (which currently has over 40 students enrolled with several additional requests)
- II. Special Topics: Domestic Terrorism
- III. Special Topics: Women Who Kill (who I then co-taught with Diana Johnson)
- IV. UWP 3000: CJ Study Abroad to Berlin, Germany
- V. Special Topics: Cyber-Crime (In process)
- VI. Revised: CJ Women & the Law
- VII. Revised: Psychology and the Law

Teaching and conducting research with my students are my passion. I would like to develop courses for UWP that reflect the needs of the 21st Century and make us one of the most progressive CJ programs in the U.S. I have a unique and well sought after professional expertise in homeland security. I have worked in homeland security/terrorism and counter-intelligence (which involved protecting the German government and business/technology against cyber-attacks from the former Soviet Union) long before many others and have an experience that is very unique in today's academia. I am at a point where I do not want to further miss out on applying my special skills.

I believe that we need to discuss the cyber-security program plans with our Chancellor's Office. It doesn't make sense to me that Criminal Justice, one of the three strongest programs on campus that has attracted approx. 1000 students (on campus & online), is run with such a small faculty and full time staff. We are one of the lowest paid faculty & staff on campus with one of the highest if not the highest workload. I don't know of any other program that requires its personnel to handle between 70-90 advisees per semester. If CJ brings in so many students and tuition revenue shouldn't we qualify for more support in accommodating the demands of this highly sought after field? I look forward to the opportunity to pitch my ideas to the Chancellor's Office.

Thank you,

Sabina