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Institutionalizing Homeland Security Education: The Penn State Experience

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Homeland Security and Defense



Institutionalizing Homeland Security Education: The Penn State Experience

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Homeland Security and Defense

Topics

- Academia in Homeland Security Education
- Current Success
 - Master of Homeland Security in Public Health Preparedness
- Expanding Options
 - Inter-college Master of Professional Studies in Homeland Security
- Lessons Learned
- Next Steps
- Q&A

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Integration: Role of Academia

- Address causes & effects of a world facing multiple threats
- Contribute to developing the homeland security discipline
- Capacity to integrate multiple disciplines to:
 - Prevent
 - Prepare
 - Respond
 - Mitigate

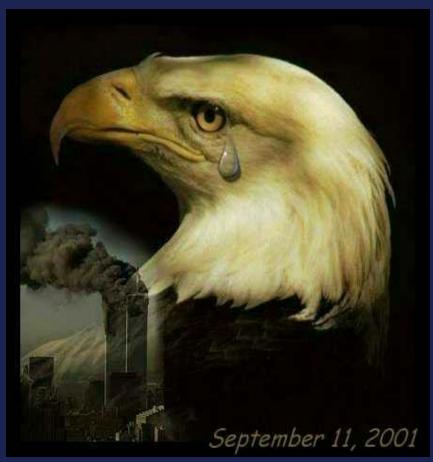




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Public Health Preparedness Success

- Master of Homeland Security in **Public Health Preparedness** launched January 2005
- Office of Public Health Preparedness Support
- **Statistics**
 - 843 enrollments (ave. 210/year)
 - 119 active students
 - 16 MPS awarded



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Why an integrated degree?

- DHS linked research & education
- Homeland Security encompasses multiple disciplines
- Capacity to instruct & research
- Track record of success

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iMPS in HLS

- 33 credit program
- Six Penn State Colleges contribute:
 - Agriculture Sciences Ag Biosecurity
 - Capital College (Penn State Harrisburg) Policy
 - Earth & Mineral Sciences Geospatial Intelligence
 - Information Science and Technology Information Security & Forensics
 - Liberal Arts Core
 - Medicine (Penn State Hershey) Public Health
- Option Specific Research
- Serve multiple audiences
 - Embedded certificates
- Coordination at Penn State Hershey
 - Program Chair, Dr. Robert Cherry

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CORE CURRICULUM (12 credits)

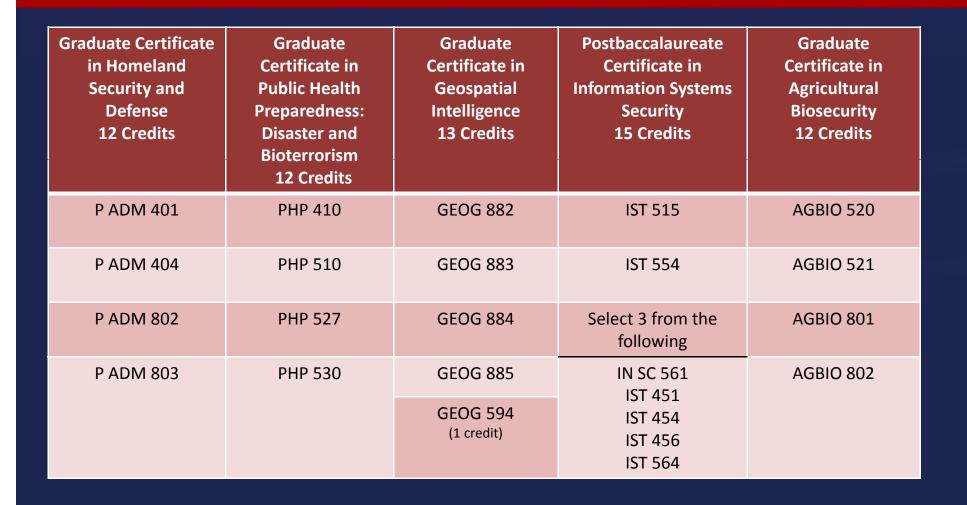
HLS / P ADM 801, Homeland Security Administration: Policies and Programs
HLS / PHIL 803, Homeland Security: Social and Ethical Issues
HLS / CRIM 805, Violence, Threats, and Insurgency

ELECTIVE GROUP B

(Choose 1)

GEOG 880, Cultural Geography
PHP 553/CAS 553, Disaster Communication
IST 564, Crisis, Disaster, and Risk Management
PLSC 439, The Politics of Terrorism

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iMPS Homeland Security - Goals

- •Identify and assess potential threats, vulnerabilities and consequences
- Comprehend major policy and legislation that shapes homeland security
- Apply leadership skills for producing and acting on information
- •Recognize how natural and man-made catastrophes impact society and the domestic and global economy.
- Develop an appreciation of the cultural, social, psychological, political and legal aspects of terrorism and counterterrorism
- •Instill applied skills in specific options

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Major Issues Faced

- Logistics
- Administrative
- Consistency of Approach
 - Option alignment
- Core Program
 - What is homeland security?
 - What is covered in a "core" program?

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Lessons Learned

- Market Research is essential
 - Program options (i.e., certificate & degree)
 - Content options
- Serendipity building faculty depth
- Build consensus
- Flexible delivery
- Responsive to students
 - Integrating Degrees
- Connections with practitioners
 - Department of Homeland Security
 - Naval Postgraduate School
 - PA National Guard and Office of Homeland Security
 - US Army War College

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Next Steps

- Additional Programs
 - Computer Security
 - Critical Infrastructure Protection
 - Terrorism
 - Intelligence
- International Partnerships & Collaboration
 - Saudi Arabia
 - Germany
- Increased faculty research

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Thank You Q & A

http://www.worldcampus.psu.edu/ /MasterHomelandSecurity

Curriculum Map for Intercollege MPS in Homeland Security (iMPS-HLS): 33 credits (1/14/2010)

Core Curriculum - 9 cr

HLS/P ADM 801 - Homeland Security Administration: Policies and Programs HLS/PHIL 803 — Homeland Security: Social and Ethical Issues HLS/CRIM 805 - Violence, Threats, and Insurgency

Homeland Security	Public Health Preparedness	Geospatial Intelligence	Computer and Network Security	Information Security and Forensics	Ag Biosecurity
Base Program - 12 cr	PHP Option - 12 cr	GSI Option - 12 cr	CNS Option - 12 cr	ISF Option - 12 cr	AGBIO Option - 12 cr
(P ADM Students Only)	(PHP Students Only)	(GSI Students Only)	(CSE Students Only)	(IST Students Only)	(AGBIO Students Only)
P ADM 401 P ADM 404 P ADM 802 P ADM 803* *Open to non-P ADM students	PHP 410 PHP 510 PHP 527* PHP 530 *Open to non-PHP students	GEOG 882 GEOG 883* GEOG 884 GEOG 885 *Open to non-GSI students	CSE 543* CSE 546 EE 561 CSE 514 *Open to non-CNS students	IST 454 IST 515 IST 554* IN SC 561 *Open to non-ISF students	AGBIO 520* AGBIO 521 AGBIO 801 AGBIO 802 *Open to non-AGBIO students
Elective Group A - 6 cr	Elective Group A - 6 cr	Elective Group A - 6 cr	Elective Group A - 6 cr	Elective Group A- 6 cr	Elective Group A - 6 cr
(Choose 2)	(Choose 2)	(Choose 2)	(Choose 2)	(Choose 2)	(Choose 2)
GEOSC 402 PLSC 439 PHP 553/ CAS 553 PHP 558 / PSY 558 Courses with an asterisk (*)	GEOSC 402 IST 564 PHP 553/ CAS 553 PHP 558/ PSY 558 Courses with an asterisk (*)	GEOSC 402 GEOG 880 IST 564 IST 885 Courses with an asterisk (*)	CSE 544 CSE 545 CSE 511 EE/CSE 588 Courses with an asterisk (*)	IST 451 IST 456 IST 564 SRA 468 Courses with an asterisk (*)	VBSC 444 MANGT 510 GEOSC 402 PHP 558/ PSY 558 Courses with an asterisk (*)
Elective Group B – 3 cr	Elective Group B – 3 cr	Elective Group B – 3 cr	Elective Group B – 3 cr	Elective Group B -3 cr	Elective Group B – 3 cr
(Choose 1)	(Choose 1)	(Choose 1)	(Choose 1)	(Choose 1)	(Choose 1)
GEOG 880	GEOG 880	GEOG 880	GEOG 880	GEOG 880	GEOG 880
PHP 553 / CAS 553	PHP 553 / CAS 553	PHP 553 / CAS 553	PHP 553 / CAS 553	PHP 553 / CAS 553	PHP 553 / CAS 553
IST 564	IST 564	IST 564	IST 564	IST 564	IST 564
PLSC 439	PLSC 439	PLSC 439	PLSC 439	PLSC 439	PLSC 439
Capstone	Capstone	Capstone	Capstone	Capstone	Capstone
Experience – 3 cr	Experience – 3 cr	Experience – 3 cr	Experience – 3 cr	Experience – 3 cr	Experience – 3 cr
P ADM 594	PHP 594	GEOG 594	CSE 594	IST 594	AGBIO 594

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Homeland Security & Defense (Base Program)

- Option Courses
 - P ADM 401, Introduction to Homeland Security
 - P ADM 404, Homeland Security and Defense in Practice
 - P ADM 802, Multifaceted Approaches to Homeland Security
 - P ADM 803*, Strategic Planning and Organizational Imperatives in Homeland Defense and Security
- Elective Group A (Choose 2)
 - GEOSC 402, Natural Disasters
 - PLSC 439, The Politics of Terrorism
 - PHP/CAS 553, Disaster Communication
 - PHP/PSY 558, Disaster Psychology
 - Option courses with an * (PHP 527, GEOG 883, IST 554, and AGBIO 520)
- Capstone Experience
 - P ADM 594

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Public Health Preparedness

- Option Courses
 - PHP 410, Public Health Preparedness for Disaster and Terrorist Emergencies I
 - PHP 510, Public Health Preparedness for Disaster and Terrorist Emergencies II
 - PHP 527*, Public Health Evaluation of Disasters and Bioterrorism
 - PHP 530, Critical Infrastructure Protection of Health Care Delivery Systems
- Elective Group A (Choose 2)
 - GEOSC 402, Natural Disasters
 - IST 564, Crisis, Disaster, and Risk Management
 - PHP/CAS 553, Disaster Communication
 - PHP/PSY 558, Disaster Psychology
 - Option courses with an * (P ADM 803, GEOG 883, IST 554, and AGBIO 520)
- Capstone Experience
 - PHP 594

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Geospatial Intelligence

- Option Courses
 - GEOG 882, Graphic Foundations of Geospatial Intelligence
 - GEOG 883*, Remote Sensing for the Geospatial Intelligence Professional
 - GEOG 884, Geographic Information Systems for the Geospatial Intelligence Professional
 - GEOG 885, Advanced Analytic Methods in Geospatial Intelligence
- Elective Group A (Choose 2)
 - GEOSC 402, Natural Disasters
 - GEOG 880, Cultural Geography
 - IST 564, Crisis, Disaster, and Risk Management
 - IST 885, Introduction to Multisensor Data Fusion
 - Option courses with an * (P ADM 803, PHP 527, IST 554, and AGBIO 520)
- Capstone Experience

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Information Security & Forensics

- Option Courses
 - IST 454, Computer and Cyber Forensics
 - IST 515, Information Security and Assurance
 - IST 554*, Network Management and Security
 - INSC 561, Web Security and Privacy
- Elective Group A (Choose 2)
 - IST 451, Network Security
 - IST 456, Security and Risk Management
 - IST 564, Crisis, Disaster, and Risk Management
 - SRA 468, Visual Analytics for Security Intelligence
 - Option courses with an * (P ADM 803, PHP 527, GEOG 883, and AGBIO 520)
- Capstone Experience
 - IST 594

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Agricultural Biosecurity

- Option Courses
 - AGBIO 520*, Agricultural Biosecurity : Protecting a Key Infrastructure
 - AGBIO 521, Food Defense: Prevention Planning for Food Processors
 - AGBIO 801, Veterinary Infectious Disease Diagnostic and Surveillance Systems
 - AGBIO 802, Plant Protection: Responding to Introductions of Threatening Pests and Pathogens
- Elective Group A (Choose 2)
 - VBSC 444, Epidemiology of Infectious Disease
 - MANGT 510, Project Management
 - GEOSC 402, Natural Disasters
 - PHP/PSY 558, Disaster Psychology
 - Option courses with an * (P ADM 803, PHP 527, GEOG 883, and IST 554)
- Capstone Experience
 - AGBIO 594