

UNIVERSITY SENATE
UNIVERSITY AT ALBANY
STATE UNIVERSITY OF NEW YORK

Introduced by: Undergraduate Academic Council
University Planning & Policy Council

Date: May 04, 2015

**PROPOSAL TO ESTABLISH AN UNDERGRADUATE MINOR IN
EMERGENCY PREPAREDNESS, HOMELAND SECURITY, AND
CYBERSECURITY**

IT IS HEREBY PROPOSED THAT THE FOLLOWING BE ADOPTED:

1. That the University Senate approves the attached proposal as approved by the Undergraduate Academic Council (April 23, 2015) and University Planning & Policy Council (April 30, 2015).
2. That this proposal be forwarded to the President for approval.

Course and Program Action Form

Proposal No. _____

Please check one: Course Proposal Program Proposal

Please mark all that apply:

| | | | |
|-------------------------------------------------------------------------------------------|--------------|-------------------------------------------------|----------------------------------------|
| <input type="checkbox"/> New Course | Revision of: | <input type="checkbox"/> Number | <input type="checkbox"/> Description |
| <input type="checkbox"/> Cross-Listing | | <input type="checkbox"/> Title | <input type="checkbox"/> Prerequisites |
| <input type="checkbox"/> Shared-Resources Course | | <input type="checkbox"/> Credits | |
| <input type="checkbox"/> Deactivate/Activate Course (boldface & underline as appropriate) | | <input type="checkbox"/> Other (specify): _____ | |

Department: Public Administration Effective Semester, Year: Fall 2015

Course Number Current: n/a New: n/a Credits: n/a

Course Title: Emergency Preparedness, Homeland Security and Cybersecurity

Course Description to appear in Bulletin:

See attached.

Prerequisites statement to be appended to description in Bulletin:

If S/U is to be designated as the **only** grading system in the course, check

This course is (will be) cross listed with (i.e., CAS ###): n/a

This course is (will be) a shared-resources course with (i.e., CAS ###): n/a

Explanation of proposal:

See attached.

Other departments or schools which offer similar or related courses and which have certified that this proposal does not overlap their offering: **School of Business; College of Computing and Information**

If this proposal is for an interdisciplinary program, please indicate the Department where the major/minor will be housed: **Public Administration**

| | | | |
|----------------------------------------------------------------------------------------------------|---------------|----------------------------------------------|---------------|
| Chair of Proposing Department (TYPE NAME) | Approval Date | Chair of College Academic Programs Committee | Approval Date |
| Jeff Straussman | 4/10/2015 | n/a | |
| Chair of Departments having cross-listed course(s) [Copy of e-mail approval(s) on following page.] | Approval Date | Dean of College | Approval Date |
| n/a | | Karl Rethemeyer | 4/13/2015 |
| Chair of Departments having cross-listed course(s) [Copy of e-mail approval(s) on following page.] | Approval Date | Undergraduate Studies | Approval Date |
| n/a | | | |

Proposed Minor in Emergency Preparedness, Homeland Security and Cybersecurity

Bulletin text:

The minor in Emergency Preparedness, Homeland Security and Cybersecurity is designed to provide students with broad overview of these three critical fields, as well as help students develop critical thinking skills and subject area knowledge of public policy, management, and risk analysis.

Requirements: a minimum of 18 graduation credits (9 or more of which must be in coursework at or above the 300 level) including: R PAD 101; R POS/R PAD 343; R PAD 344; B FOR 201 or I CSI 124X or B FOR204; and a minimum of 6 credits of approved electives.

Required 12 credit core:

R PAD 101 Introduction to Emergency Preparedness, Homeland Security and Cybersecurity

R POS/R PAD 343 Homeland Security

R PAD 344 Emergency Preparedness

B FOR 201 Introduction to Digital Forensics; ICSI 124x Computer Security Basics; or B FOR 204 Fundamentals Information and Cyber Security (Only one of B FOR 204 and I CSI 124X may be taken for credit toward the minor. If B FOR 204 or I CSI 124X is chosen for the core, B FOR 201 may be used as an elective. If B FOR 201 is chosen for the core, B FOR 204 or I CSI 124X may be used as an elective.)

Electives: minimum of 6 credits from the following courses

R POS 101 American Politics

R POS 140 (= R PAD 140) Introduction to Public Policy

T POS 260 Political Violence

T POS 261Y Comparative Ethnicity (T POS 261 is the Honors College version of R POS 361)

R POS 316 (= R PAD 316) Methodological Tools for Public Policy (Prerequisite: R PAD 204)

R POS 317 Comparative Criminal Procedure

R POS 320 American Federalism

R POS 321 (= R PAD 321) State and Local Government (Prerequisite(s): R POS 101)

R POS 322 (= R PAD 322) Government & Politics of New York City

R POS 336 Civil Liberties

R POS 360 Violent Political Conflict

R POS 363 American Criminal Courts (Prerequisite: junior or senior standing)

B FOR 100 Introduction to Information Systems

B FOR 201 Introduction to Digital Forensics (*if B FOR 204 or I CSI 124X has been completed for the core*)

B FOR 202 Cyber Crime Investigations

B FOR 203 Networking: Introduction to Data Communication

B FOR 204 Fundamentals Information and Cyber Security (*Not open for credit toward the minor by students who have completed I CSI 124X for the core*)

B FOR 300 Databases for Digital Forensics (Prerequisite: B FOR 100 or permission of instructor)

B FOR 301 Computer Forensics I (Prerequisite: B ITM 201 or B FOR 201 or permission of instructor)

B FOR 302 eDiscovery Forensics

B FOR 303 Computer Forensics II (Prerequisites: B FOR 301 or permission of instructor)

B FOR 304 Network and Mobile Forensics (Prerequisites: B FOR 203 and B FOR 301)

B FOR 401W Advanced Digital Forensics (Prerequisites: B FOR 302, B FOR 303, and B FOR 304)

B FOR 402 Digital Forensics Moot Court (Prerequisites: B FOR 302, B FOR 303, B FOR 304 and B FOR 401W)

R CRJ 201 Introduction to the Criminal Justice Process

R CRJ 202 Introduction to Law and Criminal Justice

R CRJ 203 (= A SOC 203) Criminology (Prerequisite: A SOC 115)

R CRJ 281 Introduction to Statistics in Criminal Justice

R CRJ 351 Policing in a Free Society (Prerequisite: junior or senior standing)

R CRJ 353 (= R POS 363) American Criminal Courts (Prerequisite: junior or senior standing)

R CRJ 401 Crime Deviation and Conformity (Prerequisite: R CRJ 203)

R CRJ 414Z Order and Disorder in Society (Prerequisite: junior or senior standing)

R CRJ 417 Cross-National Crime

I CSI 124X Computer Security Basics (*Not open for credit toward the minor by students who have completed B FOR 204*)

I CSI 424 Information Security (Prerequisites: I CSI 400 or 402)

I CSI 426 Cryptography (Prerequisite: I CSI 333. Corequisite: I CSI 403 or any other appropriate courses as advised)

I INF 202 Introduction to Data and Databases (Prerequisites: I CSI 101, 105, 110 or 201 or B ITM 215; not open to students who are taking or have completed I CSI 410 or 411 or B ITM 331)

I INF 306 Information Security and Assurance (Prerequisite: I INF 202)

I INF 403 Advanced Networking and Security (Prerequisites: I INF 303, I INF 404, and some programming experience)

A ATM 100 The Atmosphere

A ATM 103 Introduction to Climate Change

A ATM 200 Natural Disasters

A USP 201 (formerly A PLN 220) Introductory Urban Planning

A USP 315Z (formerly A PLN 315Z) State and Regional Planning (Prerequisite: A USP 201)

A USP 430/430Z (formerly A PLN 430/430Z) (= A GOG 430/430Z) Environmental Planning (Prerequisite: A USP 201 or permission of instructor)

A USP 456 (formerly A PLN 456) (=A GOG 496) Geographic Information Systems

A GOG 290 Introduction to Cartography

A GOG 484 Remote Sensing I

H SPH 201 Introduction to Public Health

H SPH 231 Concepts in Epidemiology (Prerequisite: A MAT 108)

T SPH 272 (= T POS 272) Health and Human Rights: an Interdisciplinary Approach

H SPH 321 Global Environmental Issues and Their Effect on Human Health (Prerequisite: one semester of college-level course in biology or chemistry)

H SPH 323 (= H EHS 323) Environmental Laboratory Perspectives in Public Health (Prerequisite: one year of college-level biology)

H SPH 341 Promoting Healthy People and Communities

Background Information (not in Bulletin Text)

The minor in Emergency Preparedness, Homeland Security and Cybersecurity is designed to provide students with broad overview of these three critical fields, as well as helping students to develop critical thinking skills and subject area knowledge of public policy, management and risk analysis. The introductory course provides an overview of the three fields through a common risk management framework for examining policy and management in each of fields, as well as providing generalized background on each of the three fields and an explanation of how they are related. The three additional required courses are designed to provide an in depth examination of each field. Finally, students will take two electives falling in any of the three fields. The four required courses will be taught on an annual basis with two in the fall and two in the spring.

We are in the process of proposing a major in Emergency Preparedness, Homeland Security and Cybersecurity which we hope will be established in the coming year. The four required classes in this proposal for the minor will be the four core classes in the major.

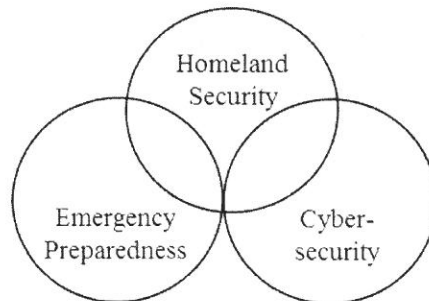
The impetus for the minor comes from two sources. First, in the NYSUNY2020 proposal process Rockefeller College and the College of Computing and Information proposed the creation of undergraduate and graduate programs in homeland security, cybersecurity, and risk management. Although the proposal was scored favorably by both review committees, the Provost was only able to provide partial funding for the graduate portion of the proposal due to budget constraints. Second, in his January 2015 *State of the State* address New York State Governor Cuomo announced that the University at Albany would be home to SUNY's new College of Emergency Preparedness, Homeland Security, and Cybersecurity, with training programs in the New York State Preparedness Training Center (SPTC) in Oriskany, NY in Oneida County. The University at Albany was chosen for its extensive educational and research programs in homeland security, cybersecurity and emergency management as well as its emergency management and health preparedness training initiatives. This minor makes use of existing resources at the University to create an interdisciplinary course of study in support of the Governor's initiative.

The field of homeland security explores a wide range of issue areas including national defense, intelligence, terrorism, counter-terrorism, weapons of mass destruction, critical infrastructure, border security, immigration, civil liberties, ethics, federalism, cybersecurity, health preparedness, and disaster management and recovery. The field of cybersecurity addresses technical challenges including authentication and access control, network security, mobile security, intrusion detection and prevention, incident response, digital forensics, and cryptography, as well as organizational and social challenges such as information security policy, cyber intelligence, social media privacy, cyber warfare, cybercrime, risk management and compliance. Finally, the field of emergency preparedness includes issues such as health preparedness, emergency medicine, first responder management and training, hazardous materials, pandemic planning and response, environmental health, disaster communication, disaster mental health, resilience, continuity of government and business, infrastructure restoration, and recovery and economic development.

Although the fields of Emergency Preparedness, Homeland Security and Cybersecurity emerged independently, they are highly related and overlapping fields of study (see Figure 1). In part, the overlap exists because each of these fields requires leaders and managers to identify a vast array of hazards and risks, to measure, assess and compare risks, to prepare for and mitigate risk, and to respond to incidents that do occur. In addition, leadership, strategic planning, strategic communication, and ethics play a

central role in all three fields. The overlap also exists when the scale of the threat, attack or disaster becomes a fundamental threat to the political, social or economic fabric of a society. For example, a cyberattack for monetary gain on a single bank falls squarely within the field of cybersecurity. In contrast, a systemic cyberattack on the banking system of a country falls within the overlap of cybersecurity and homeland security. Similarly, local flooding would typically be handled by local emergency responders and thus would fall within the emergency preparedness sphere. However, massive storms that severely damage a wide geographic area such as Hurricane Irene, Tropical Storm Lee, and Superstorm Sandy would fall within the overlap of emergency preparedness and homeland security.

Figure 1: The Relationship between Emergency Preparedness, Homeland Security and Cybersecurity



The objective of the new minor is to establish a solid liberal arts program by providing a background in three critically important fields along with an emphasis on the development broadly applicable skills. The skills emphasized in this minor, including critical thinking, strategic communication, leadership, and ethical decision-making, will be developed through the study of emergency preparedness, homeland security and cybersecurity. Beyond preparation for any of these fields, the acquisition of these skill will prepare students with this minor will for success in careers in a wide range of fields in the public, private, and nonprofit sectors.

Brief Description of Proposal

The Minor in Emergency Preparedness, Homeland Security and Cybersecurity is designed to provide students with broad overview of these three critical fields, as well as helping students to develop critical thinking skills and subject area knowledge of public policy, management and risk analysis. The introductory course provides an overview of the three fields through a common risk management framework for examining policy and management in each of fields, as well as providing generalized background on each of the three fields and an explanation of how they are related. The three additional required courses are designed to provide an in depth examination of each field. Finally, students will take two electives falling in any of the three fields. The four required courses will be taught on an annual basis with two in the fall and two in the spring. We are in the process of proposing a major in Emergency Preparedness, Homeland Security and Cybersecurity which we hope will be established in the coming year. The four required classes in this proposal for the minor will be the four core classes in the major.

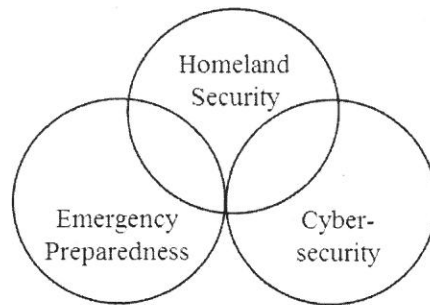
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Faculty and Staff

a) Describe new faculty hiring needed during the next 3 years

There will be no need to hire new faculty for this minor. We expect a total of forty students in the minor by year 3. The minor requires the four required courses to be taught on an annual basis. One of the existing classes (BFOR 201) is already taught on an annual basis by the School of Business (SOB) and the Political Science Department has agreed to teach RPOS 343 on an annual basis. The SOB has agreed to offer more sections of BFOR 201 if demand exceeds capacity. The Public Administration and Policy Department will reallocate resources to ensure the teaching the RPAD101 and RPAD344 on an annual basis. The two elective courses can be taken from a wide range of existing courses; we do not anticipate any supply problems for the electives. Since the minor is drawing from courses that already exist and are already being offered on a continual basis, or from new courses that will be taught by a faculty member with an already funded faculty line, there are no expected costs associated with the program.

b) Explain how program will be administered for the purposes of admissions, advising, course offerings, etc. Discuss the available support staff

The new minor will be administered by the Dean of the College of Emergency Preparedness, Homeland Security and Cybersecurity (CEHC), the Assistant to the Dean of CEHC, the Associate

Dean for Undergraduate Education in Rockefeller College, and the Director of Undergraduate Studies in Rockefeller College. When CEHC is fully established and staffed, all responsibility for the minor will shift to the new College.

During the first three years, we expect that the minor will have 10, 20, and 40 students, respectively. Rockefeller College has a system in place for handling admissions, advising and course offering for the minors in Political Science and Public Policy. The Associate Dean and Director of Undergraduate Studies in Rockefeller College will provide student services to the new minor. In addition, the Assistant to the Dean will also provide students services in order to increase capacity. Students that desire to have a faculty advisor will be matched with a faculty member contributing to the CEHC. Given that the number of Political Science minors has dropped in the last three years, Rockefeller College has sufficient capacity for student services for the new minor.

The minor is designed such that it can be offered independently from the approval of the major, which will be proposed in the near future. It is an independently valuable minor as it supplements many existing majors, including undergraduate majors in Criminal Justice, Public Health, Informatics, Political Science, Public Administration, and more. We have received significant positive feedback from department heads and advisors who feel as though the approval of this minor will significantly enhance their current offerings, and that it will fill a much needed intellectual niche which will complement to their existing programs. There is a great value in moving forward with the approval of this minor at this time, given that it has immediate value with no input of resources. The hope is to offer the minor as soon as possible, which will attract students and build interest in the program, and follow shortly after with a full major.

Proposal Title: Minor: Emergency Preparedness, Homeland Security and Cybersecurity

College or School Rockefeller **Department** Public Administration

Program Director or Sponsor David Rousseau **e-mail** drousseau@albany.edu

| | | | |
|------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------|
| Action Category | <input checked="" type="checkbox"/> Program Proposal | Does this proposal include any space resource implications? Approximate sq. ft. needed: | <input type="radio"/> Yes |
| | <input type="checkbox"/> Other (describe) | | <input checked="" type="radio"/> No |
| Action Type | <input checked="" type="checkbox"/> New | Program has been identified as a Gainful Employment Program (GEP) | <input type="radio"/> |
| | <input type="checkbox"/> Revision | | |
| | <input type="checkbox"/> Deactivation | | |
| | <input type="checkbox"/> Other (describe) | | |

Brief Description of Proposal:

See attached.

Impact on Other Programs:

The proposer had consulted the following service units:

- ITS
- the University Library
- Other

and it has been jointly determined that there will /won't be a fiscal impact of the proposed program on the service agency. Please attach letters of collaboration/support from impacted programs.

Faculty and Staff

- a) Describe new faculty hiring needed during the next 3 years
- b) Explain how program will be administered for the purposes of admissions, advising, course offerings, etc. Discuss the available support staff

See attached.

| RESOURCE IMPLICATIONS | | | | |
|-----------------------------------------------------------------------------|-----------------------|-------------|-------------|-------------|
| | (1) | Year 1 | Year 2 | Year 3 |
| Projected Expenditures (In home department and other affected units) | | | | |
| Faculty (2) | From Existing Sources | 0 | 0 | 0 |
| | From New Sources | 0 | 0 | 0 |
| Administrative Staff (2) | From Existing Sources | 0 | 0 | 0 |
| | From New Sources | 0 | 0 | 0 |
| Clerical Staff (2) | From Existing Sources | 0 | 0 | 0 |
| | From New Sources | 0 | 0 | 0 |
| Equipment, Supplies, etc.(3) | From Existing Sources | 0 | 0 | 0 |
| | From New Sources | 0 | 0 | 0 |
| Student Support | From Existing Sources | 0 | 0 | 0 |
| | From New Sources | 0 | 0 | 0 |
| Facilities | From Existing Sources | 0 | 0 | 0 |
| | From New Sources | 0 | 0 | 0 |
| Total Projected Expenditures | | \$ 0 | \$ 0 | \$ 0 |
| Projected Capital Expenditures | | | | |
| Capital Facilities | From Existing Sources | 0 | 0 | 0 |
| | From New Sources | 0 | 0 | 0 |
| Capital Equipment | From Existing Sources | 0 | 0 | 0 |
| | From New Sources | 0 | 0 | 0 |
| Total Projected Capital Expenditures | | \$ 0 | \$ 0 | \$ 0 |

| |
|------------------|
| APPROVALS |
|------------------|

Department Chair _____ Date _____
 Dept Chair

Dean _____ Date _____
 Dean

UPPC Chair _____ Date _____
 UPPC Chair

INSTRUCTIONS

When submitting a program proposal to the University Senate Policy and Planning Council, please submit this form whether or not the proposal involves resource implications.

If the proposal indicates space requirements, this information will be shared with the Office of Campus Planning.

Completed forms should be sent to the attention of the chairperson of UPPC.

It is the sponsoring department's responsibility to obtain all required signatures before presenting the documentation to the council. The chair may request additional supporting documentation prior to review by the entire council. You will be notified when your proposal is on the UPPC agenda, and will be invited to attend the meeting.

-
- (1) Out years projections should be calculated to include inflation of 3% per year
 - (2) Include fringe on personnel that are paid out of an IFR account
 - (3) Include any equipment, supply, travel, telecom, postage, etc. items that are not a capital expense

Course and Program Action Form

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| <input type="checkbox"/> Cross-Listing | | <input type="checkbox"/> Title | <input type="checkbox"/> Prerequisites |
| <input type="checkbox"/> Shared-Resources Course | | <input type="checkbox"/> Credits | |
| <input type="checkbox"/> Deactivate/Activate Course (boldface & underline as appropriate) | | <input type="checkbox"/> Other (specify): _____ | |

Department: Public Administration Effective Semester, Year: Fall 2015

Course Number Current: _____ New: RPAD 101 Credits: 3

Course Title: Introduction to Emergency Preparedness, Homeland Security and Cybersecurity

Course Description to appear in Bulletin:

From hackers to hurricanes, suicide bombing to supply chain interruptions, infrastructure failures to infectious disease outbreaks, the nation's governments, companies and non-profits must prepare for, protect against, respond to, and recover from a growing array of risks and threats. The fields of emergency preparedness, homeland security and cybersecurity are central to those efforts, and there is an ever growing demand for individuals prepared in these areas.

Through lectures, discussion, and case studies, students in this course will develop a broad theoretical, substantive, and practical understanding of the fields of emergency preparedness, homeland security and Cybersecurity. Students will be exposed to various ways to think about, measure, assess and compare risks, as well as how to mitigate them and respond to incidents that do occur. The three disciplines will be explored through the crosscutting themes that them together, including prevention, incident management and response, crisis communication, recovery and resiliency.

Prerequisites statement to be appended to description in Bulletin:

If S/U is to be designated as the **only** grading system in the course, check

This course is (will be) cross listed with (i.e., CAS ###): _____

This course is (will be) a shared-resources course with (i.e., CAS ###): _____

Explanation of proposal:

Other departments or schools which offer similar or related courses and which have certified that this proposal does not overlap their offering: School of Business; College of Computing and Information

If this proposal is for an interdisciplinary program, please indicate the Department where the major/minor will be housed:

| | | | |
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| Jeff Straussman | 4/10/2015 | n/a | |
| Chair of Departments having cross-listed course(s) [Copy of e-mail approval(s) on following page.] | Approval Date | Dean of College | Approval Date |
| n/a | | Karl Rethemeyer | 4/13/2015 |
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| <input type="checkbox"/> Shared-Resources Course | | <input type="checkbox"/> Credits | |
| <input type="checkbox"/> Deactivate/Activate Course (boldface & underline as appropriate) | | <input type="checkbox"/> Other (specify): _____ | |

Department: Public Administration Effective Semester, Year: Spring 2016

Course Number Current: _____ New: RPAD 344 Credits: 3

Course Title: Emergency Preparedness

Course Description to appear in Bulletin:

Emergency Preparedness provides a study of applicable policies, protocols, and laws that impact the practice of emergency preparedness at the federal, state, and local levels of government. The study includes a brief review of the history of emergency management setting the stage for an examination of "best practices" and philosophies. These drive the nation's preparedness, response, recovery, and mitigation efforts of various levels of emergencies and disasters which in turn helps facilitate a community's resilience in the face of disasters. The methodology used in this course includes classroom discussions and activities, studies of applicable case studies, and individual exploration resulting in a well crated paper. Where applicable, simulation activities provide opportunities for the student to "experience" realistic situations similar to real-world emergencies and disaster operations.

Prerequisites statement to be appended to description in Bulletin:

Recommended: PAD 101 Introduction to Emergency Preparedness, Homeland Security and Cybersecurity

If S/U is to be designated as the **only** grading system in the course, check

This course is (will be) cross listed with (i.e., CAS ###): _____

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Explanation of proposal:

Other departments or schools which offer similar or related courses and which have certified that this proposal does not overlap their offering: **School of Business; College of Computing and Information**

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| Jeff Straussman | 04/10/2015 | n/a | |
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| n/a | | Karl Rethemeyer | 04/13/2015 |
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