Take your knowledge to a higher level with Virginia Tech's graduate certificate in homeland security policy; a challenging and practical research-based curriculum designed by experienced thought-leaders.

www.cpe.vt.edu/homelandsecurity/

A partnership between
The Center for Technology, Security, and Policy (CTSP)
Virginia Tech National Capital Region
and
The Center for Public Administration and Policy (CPAP)
School of Public and International Affairs
College of Architecture and Urban Studies

Virginia Tech
NATIONAL CAPITAL REGION
The Program

This graduate certificate program in homeland security focuses on domestic issues of security from a policy perspective. The certificate may serve either as a stand-alone credential of advanced educational achievement for non-degree students or as a supplement to a masters or doctoral degree. The program requires the completion of four homeland security courses with a major paper option that introduces students to the complexity of the homeland security environment and exposes them to a broad array of issues relating to homeland security strategy, policy formulation, administrative and organizational challenges, planning, and operations. The certificate represents concentrated work in the field of homeland security policy.

This program:

★ Addresses the spectrum of homeland security policy to include the threat, prevention, and response and recovery.
★ Provides qualified homeland security professionals in the public and private sectors and graduate students who seek to build academic careers in the field of homeland security policy with the opportunity to study and enhance their knowledge and skill sets.
★ Engages faculty, graduate students, and other scholars in systemic research and study designed to expand the body of homeland security knowledge, develop it as an academic discipline, and improve the quality of homeland security policy making and public service.
★ Leverages the unique knowledge, experience, and education of scholars and practitioners in the National Capital Region to combine theory and practice to produce exceptional educational opportunities for a broad spectrum of students who seek careers in academia, business, or public service.

Courses are taught in Old Town Alexandria at the Virginia Tech Alexandria Center for the College of Architecture and Urban Studies, conveniently located near the King Street Metro Station. Most courses are offered once a week during the evening throughout the 15-week semester.

The Students

The certificate is designed for a variety of professionals throughout the National Capital Region in both the public and private sectors.

★ U.S. Government Employees: This program helps fulfill federal government requirements for advanced education in homeland security policy for mid-career and senior level employees.
★ State and Local Officials: This program meets the high demand among state and local officials for education that de-mystifies the federal government’s homeland security policies and programs and offers insight into homeland security planning and execution at the state and local levels.
★ Private Sector: Contractors and consultants who provide support for federal, state and local homeland security and emergency response programs can further their professional development and competitive advantage. Business executives who seek creative ways to improve both business efficiency and security without adding significant costs to their businesses will also benefit from the program.
★ Advanced Degree Students: Students enrolled in master and doctoral programs acquire the skill sets needed to develop homeland security as an academic discipline and to make valuable contributions to the theory and practice of homeland security as a critical component of public administration and policy.

The Curriculum

The certificate is comprised of four courses (12 hours of graduate coursework). Three courses focus on 1) the threat (PAPA 5264), 2) prevention (PAPA 6264), and 3) response and recovery (PAPA 5354). A fourth course is selected from specified electives.

Those who pursue a homeland security concentration as part of an MPA degree program complete the three required courses in the threat, prevention, and response and recovery, and an internship, major paper or thesis on an approved topic related to homeland security policy. Those who pursue a homeland security concentration as part of a Ph.D. program complete the three required courses and a dissertation or a scholarly paper on an approved topic related to homeland security policy.

Required Courses

PAPA 5264: Homeland Security and the Terrorist Threat. A multidisciplinary introduction to the theory, strategy, decision-making, and doctrine of Homeland Security as practiced in the U.S. Describes the threat, nature of current global conflicts in which the U.S. is engaged, America’s foreign and domestic policy responses to 9/11, and strategic and operational homeland security functions. Designed to promote subject matter understanding, simplification of issues, and consensus decision-making.

PAPA 6264: Advanced Topics in Policy Systems Management: Homeland Security and Prevention. Consideration of the critical integration of national security and homeland security policies and operational activities at the federal, state, and local levels to create management systems that function effectively in complex environments. This course examines the relationship between national security policies that manifest themselves in the international arena and homeland security policies that focus on U.S. domestic issues. Includes advanced study of information sharing, critical infrastructure, law enforcement, transportation systems, borders, and response and recovery operations.

PAPA 5354: Homeland Security Response and Recovery. Multi-disciplinary policy course focused on emergency response and recovery following catastrophic manmade and natural disasters in the U.S. Emphasis on strategic and operational decision making; response models and strategies; the preparation, response and recovery roles and responsibilities of federal, state, and local jurisdictions; and federal policy alternatives to address the complex resource challenges of multi-jurisdictional response planning and operations execution. Designed to promote subject matter understanding, simplification of issues, and consensus decision-making.

Elective Courses

PAPA/STS 6664: Advanced Topics in Science and Technology: Complexity, Emerging Policy, Doctrine and Strategy. Variable topics in science and technology policy. Includes advanced study of science, technology, and economy; science, technology, and power; strategies for research and development policy, public and private sector; transfer of technology; technological forecasting; government regulation and responses; science policy assumptions and challenges, specialist knowledge and expertise; state and academic knowledge production; issues of race, class, gender, and national identity in policy work.

PAPA 6254: Advanced Topics in Homeland Security Policy: Critical Infrastructure Protection and Resiliency. An introduction to the policy, strategy and practical application of critical infrastructure protection and resiliency from an all-hazards perspective. Describes the strategic context presented by the 21st century risk environment, as well as the challenges and opportunities associated with infrastructure-related public-private partnerships, information-sharing, risk analysis and prioritization, risk mitigation, performance metrics, and incident management. Students will be exposed to complex intergovernmental and public-private sector policymaking, operational planning and crisis management. Designed to promote subject matter understanding, critical analysis of issues and insight into senior leader decision making. Includes a practical examination of stakeholder interaction and key subject matter areas through an interactive tabletop exercise and research paper assignment.

GIA 5514: Global Security. This course examines the changing nature of global security. It offers an introduction to the meaning of global security at a time of rapid change in international affairs. It examines the traditional sources of insecurity in the international system, the rising concerns and threats to global security from ethnic conflicts and failing states, and the emerging new security agenda arising from challenges to global stability including threats arising from poverty, discrimination, environmental degradation and the lack of human rights. This course seeks to understand the root causes of insecurity and the various challenges to international stability in the contemporary international system. Discussions include the policy implications of these security challenges, the mechanisms developed by the international community, and the response of states and other actors in the international system to meet these challenges today.

PAPA 5904/5974: Independent Study, Project and Report. A course of independent study in a suitable area of homeland security theory, policy, or operational focus.
Benefit from the collective expertise of a dynamic and experienced faculty. Students will interact with scholarly professionals practiced in the craft of developing and analyzing homeland security policy for a variety of government, academic, and nonprofit organizations.


Major General (Ret.) Lawlor was formerly the Chief Executive Officer of Centuria Corporation. He was a member of the Homeland Security Advisory Council (HSAC), the former Chief of Staff of the Department of Homeland Security, former Senior Director for Protection and Prevention, White House Homeland Security Council, and the first Commanding General, Department of Defense Joint Task Force-Civil Support. MG Lawlor specializes in decision support technology; national and homeland security strategy, doctrine, policy and operations.

**John Harrald.** Research Professor, Center for Technology Security and Policy, and Visiting Professor, Center for Public Administration and Policy. Ph.D., Management Science, Rensselaer Polytechnic Institute.

Prior to joining Virginia Tech, Jack Harrald served as director of The George Washington University Institute of Crisis, Disaster and Risk Management (ICDRM), an interdisciplinary institute engaged in research, education, and professional development. Harrald is Executive editor, The Journal of Homeland Security and Emergency Management (JHSEM) and associate editor, The International Journal of Emergency Management (IJEM). He is a member of the Center for Disease Control and Prevention Board of Scientific Counselors; the Disaster Roundtable Steering Committee, National Research Council; and the National Research Council Computer Science and Telecommunications Board. Dr. Harrald specializes in crisis, disaster, risk management, and emergency response.


Dr. Jefferson previously served as deputy director, Declassification Productivity Research Center at The George Washington University, and held numerous senior technical positions at the Science Applications International Corporation. She specializes in information and communication technologies (ICT); crisis, disaster, risk management, emergency response, decision support systems, and crisis collaborative decision making.

**Randall Murch.** Associate Director, Research Program Development, National Capital Region and Adjunct Professor, School for Public and International Affairs. Ph.D. Plant Pathology, University of Illinois, Urbana-Champaign.

Dr. Murch had a distinguished career with the Federal Bureau of Investigation as a Special Agent, forensic biologist, director of the Advanced Systems and Concepts Office, and creator of the FBI’s WMD forensic investigative program and Hazardous Materials Response Unit. Prior to coming to Virginia Tech, Dr. Murch was the Senior Principal Counselor for Science and Technology with the Department of Homeland Security. He specializes in security in complex systems; integrative security through science, technology, policy and operations; biosecurity.

**Bob Stephan.** Policy and Research Professor, Center for Technology Security and Policy and Professor of Practice, Center for Public Administration. Masters in International Relations, University of Belgrano, Buenos Aires, Argentina, and The Johns Hopkins University.

Colonel Stephan also serves as Managing Director at Dutko Worldwide where he heads up the Global Risk Management practice area. Prior to joining Dutko, Colonel Stephan served as the Assistant Secretary of Homeland Security for Infrastructure Protection. In this capacity, he was responsible for the Department’s efforts to catalog critical infrastructures and key resources and coordinate risk-based strategies and protective measures to secure them from terrorist attack. He specializes in homeland security, critical infrastructure protection, and risk management.

**Joel Peters.** Associate Professor in Government and International Affairs at the School of Public and International Affairs at Virginia Tech. D. Phil. International Relations, St. Anthonys College, Oxford.

Prior to joining Virginia Tech, Joel Peters worked at Ben Gurion University of the Negev. Peters was the founding Director of the Centre for the Study of European Politics and Society (CSEPS) and was a senior lecturer in the Department of Politics and Government at Ben Gurion University, Israel. From 1990-96 he was a research fellow in the Middle East Program at the Royal Institute of International Affairs, (Chatham House) London. Peters’ research interests and publications cover the Arab-Israeli peace process, regional cooperation (with particular reference to the Middle East and the Mediterranean) and post conflict peacebuilding. He is the author of 3 books, and over 30 articles, chapters in books and working papers.

**Patrick Roberts.** Assistant Professor in the Center for Public Administration and Policy in the School of Public and International Affairs at Virginia Tech. Dr. Roberts’ Ph.D. is in government from the University of Virginia, and he has been a postdoctoral fellow in the Center for International Security and Cooperation at Stanford University and the Program on Constitutional Government at Harvard University. Patrick specializes in national security, intelligence, and disaster organizations and has published in a variety of scholarly and popular journals. He has worked on projects for the Department of Defense, Department of Homeland Security, Federal Emergency Management Agency, and Social Science Research Council.
The graduate certificate in Homeland Security Policy is a partnership between the Center for Technology, Security, and Policy (CTSP) and the Center for Public Administration and Policy (CPAP) at Virginia Tech.

CTSP focuses on providing education and research related to national and homeland security theory, operations, and decision support technology at the strategic and operational levels.

CPAP promotes the common good of our constitutional republic and advances public service by providing exceptional education, research, and outreach in the theory and practice of public administration, management, and policy.

**For More Information**

For further information about the program, visit the web site at (www.cpe.vt.edu/homelandsecurity) or contact:

**Scott Weimer** at weimers@vt.edu or 540/231-7887.

Virginia Tech does not discriminate against employees, students, or applicants for admission or employment on the basis of race, gender, disability, age, veteran status, national origin, religion, sexual orientation, or political affiliation. Anyone having questions concerning discrimination should contact the Office for Equal Opportunity.