MASTER OF SCIENCE in
Homeland Security

SDSU | Imperial Valley

SDSU Imperial Valley Master of Science in Homeland Security – HSEC-IV

The Graduate Program in Homeland Security was launched at SDSU Imperial Valley in 2021 in a partnership with the pre-existing San Diego-based program, the first graduate-level Homeland Security program offered in the United States. The mission of HSEC-IV is to produce leaders from a variety of educational and professional backgrounds who can effectively and efficiently identify, design, and mobilize the appropriate community resources to prevent, deter, preempt, defend against, and respond to critical incidents and emergencies at the local, regional, national, and international levels.

Homeland Security involves: 1) Identifying, analyzing, synthetizing, and disseminating information about threats and critical incidents; 2) Demonstrating an ability to appropriately use and develop new technological and science-based research to contribute to Homeland Security on a regional, national, and global basis; and 3) Articulating strategies for the optimization of Homeland Security principles for the benefit of the nation and its global partners. HSEC-IV provides a learning environment where scholarly, educational, and research endeavors are applied to real-world challenges. Faculty and students actively work with community partners on Homeland Security and Emergency Management related issues.

STUDENT LEARNING OBJECTIVES

Student learning objectives are divided into five categories:

1. **The Vision of Homeland Security**
   Core features of Homeland Security

2. **Law, Policy, & Privacy**
   Public policy pertaining to Homeland Security & Human Rights

3. **Professional Expertise**
   Demonstrating professional writing & presentation skills

4. **The International Aspects of Homeland Security**
   The global component of Homeland Security

5. **Complex Problem Solving**
   Presenting solutions to Homeland Security issues

HSEC-IV follows a cohort model that begins every two years and is designed for students who have already earned a Bachelor's degree. Structured coursework is paired with independent study, internship activities, and a study abroad course to give students a well-rounded education, allowing graduates to establish a variety of skillsets to be applied in their future careers.

HSEC-IV cohort members take courses related to Cyber Security, Emergency Management, Terrorism, Science and Technology, Law Enforcement, and more. Additionally, students will participate in an internship with a Homeland Security-related agency (Federal, State, and Local government agencies, the American Red Cross, and many others), go on a study abroad trip (many programs across the world are offered through SDSU), and complete a thesis project on a specific Homeland Security-related topic.

Advance Your Career or Expand Your Career Opportunities

In addition to current Homeland Security-related practitioners wishing to advance their careers, HSEC-IV appeals to recent college graduates interested in expanding their career opportunities. Graduates are prepared for a successful future in a variety of professional settings, including governmental and nongovernmental agencies. Professions include—but are not limited to—the following:

- **Border Safety**
- **Cyber Security**
- **Emergency Management**
- **Information Security**
- **Infrastructure Protection**
- **Intelligence Analysis**
- **Law Enforcement**

- **Logistics & Planning Management**
- **Postal & Shipping Management**
- **Prison Management**
- **Risk Management**
- **Security Management**
- **Transportation Management**
- **And More!**

SDSU Imperial Valley Graduate Program in Homeland Security (HSEC-IV)

COURSE MAP

Year One – Fall Semester
HSEC 601   Seminar in Homeland Security
HSEC 602   Homeland Security Science and Technology

Year One – Spring Semester
HSEC 603   Emergency Preparedness and Response
HSEC 604   Law, Society, and Homeland Security

(Optional) HSEC 695 – Practicum: Internship*

Year One – Summer Semester
HSEC 797   Study Abroad

Year Two – Fall Semester
CJ 510   Contemporary Issues in Law Enforcement**
HSEC 690   Domestic Terrorism and Violent Extremism

Year Two – Spring Semester
HSEC 690   Cyber Crime and Industrial Security
HSEC 790   Directed Readings in Homeland Security (Final Project)

(Optional) HSEC 695 – Practicum: Internship*

*HSEC 695 must be chosen once, either in Year 1 – Spring Semester OR Year 2 – Spring Semester

**Students who previously completed CJ 510 as an undergrad at SDSU or SDSU-IV need to register in a different 500-level graduate course to satisfy program requirements (either at SDSU-IV or cross-enrolling at SDSU)

Study Abroad Experience

A Study Abroad course is required as part of the Homeland Security graduate program. HSEC-IV students have the option of participating with their cohort on a Summer faculty-led Global Seminar (see Course Schedule), or creating their own independent study abroad experience per approval from the University and the HSEC-IV Program Advisor. The HSEC and HSEC-IV programs emphasize

international and comparative approaches to the concept of Homeland Security and through working with the University have developed a significant network of international partners to make study abroad in one's area of interest possible.

As Iceland derives 100% of its energy from renewable energy sources, HSEC students learned innovative ways to protect vital infrastructure such as Geothermal and Hydroelectric power plants, both critical resources in the Imperial Valley region and Southwestern United States.

Jeffery Osborne, PhD

Dr. Jeffery Osborne is the Program Advisor for the SDSU Imperial Valley Graduate Program in Homeland Security and an Assistant Professor of Criminal Justice. He teaches courses for both the Criminal Justice and Homeland Security programs and is also the co-coordinator of the Regional Resilience (R^2) Lab at SDSU Imperial Valley. Dr. Osborne earned a PhD in Criminal Justice from the City University of New York Graduate Center and an MA in Forensic Psychology from John Jay College of Criminal Justice. Dr. Osborne is a criminologist, primarily studying active shooter incidents. His general research interests include violent crime, crime analysis, and data generation. Dr. Osborne has published in academic journals and conducted research with law enforcement agencies and law firms. He was named the SDSU Imperial Valley 2023/24 Instructional Technology Services Faculty Fellow, working on ways to incorporate new technology in SDSU's Criminal Justice and Homeland Security educational environments.

Sambuddha Ghatak, PhD

Dr. Sambuddha Ghatak is an Assistant Professor of Criminal Justice at SDSU Imperial Valley as well as a faculty member with the School of Public Affairs at San Diego State University. Originally from India, Dr. Ghatak completed his PhD in Political Science from the University of Tennessee and before that a Master of Arts in Politics from Appalachian State University in North Carolina. As a researcher in terrorism and political conflict, he has published in several influential peer-reviewed journals such as *Terrorism and Political Violence, Journal of Conflict Resolution* and *International Interactions.* Previous to his work with San Diego State University, Dr. Ghatak taught courses on terrorism, conflict processes, social movements, and human rights for both San José State University and the University of Tennessee.

Steven Andrés, PhD

Dr. Steven Andrés is a *Certified Ethical Hacker* and earned the distinction of *Certified Information Systems Security Professional.* As a three-time commercially successful published author and occasional freelance writer, his works on security best practices have reached millions of print and online subscribers. With extensive experience managing high-availability networks in the Entertainment, Health Care, Financial, and Higher Education industries, he is frequently invited to speak on secure architecture best practices and information security current events. Previously, Dr. Andrés is credited as an inventor on U.S. Patent 8,201,257, an innovative network security risk management method, and invented the award-winning *Foundstone FS1000 Appliance,* a security platform for rapid-deployment of vulnerability management solutions at dozens of *Fortune 100* clients.

Lieutenant Luis Arreola, MS

Lieutenant Luis Andres "Andy" Arreola is a Lecturer in the Homeland Security program while also serving as a Department of Defense Police Lieutenant/Watch Commander. He grew up in East Los Angeles and enlisted in the Marine Corps at the age of 17. Lt. Arreola retired in November of 2007 after completing two combat tours, plus an extension in Iraq. In addition to having a Bachelor's degree in Criminal Justice and an MS in Homeland Security, Lt. Arreola has received extensive professional training. While in the Marine Corps, he completed the Anti-Terrorism Threat Protection Instructor Course at the John F. Kennedy Special Operations Training Center in North Carolina and the Small Arms Weapons Instructor Course in Quantico, Virginia. Lt. Arreola has wide-ranging law enforcement tactical instruction experience, including training with the Marine Corps Police Academy, Department of Defense Special Reaction Team, and the Yuma County Sheriff Department SWAT.

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For more information, please contact Dr. Jeffery Osborne, HSEC-IV Program Advisor: **josborne@sdsu.edu**

For application questions, please contact SDSU Imperial Valley Outreach and Recruitment Coordinator Francisco Peraza: **fperaza@sdsu.edu**

For financial aid questions, please contact SDSU Imperial Valley Financial Aid Analyst Georgette Astorga: **gastorga@sdsu.edu**

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