

DISABILITY AND COMMUNICATION ACCESS BOARD

919 Ala Moana Boulevard, Room 101 • Honolulu, Hawaii 96814
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March 20, 2008

LATE TESTIMONY

TESTIMONY TO THE HOUSE COMMITTEE ON PUBLIC SAFETY AND MILITARY AFFAIRS

House Concurrent Resolution 325/House Resolution 269 - Developing Hawaii's National Disaster Preparedness Training and Consultation Program for Private, Governmental, and Non-Profit Entities with an Emphasis on At-Risk Communities

The Disability and Communication Access Board (DCAB) supports House Concurrent Resolution 325/House Resolution 269 which requests that the National Disaster Preparedness Training Center include in its work program a component that addresses the needs of Hawaii's at-risk population of elderly persons and persons with disabilities.

We understand the function of the National Disaster Preparedness Training Center is to conduct research and develop models for disaster preparedness for the entire population. The Board has worked extensively in the past 2-1/2 years to develop the "2008 Interagency Action Plan for the Emergency Preparedness of People with Disabilities and Special Health Needs" in specific response to the unique needs of at-risk populations. We believe that these needs and issues should be integrated into the generic community planning efforts and that the National Disaster Preparedness Training Center is an appropriate vehicle for this effort.

We note that DCAB, as well as other agencies, are mentioned in the resolution for the transmittal of certified copies the resolution. Specific agencies should be listed on page 2, line 25 for inclusion by the Center in its efforts. We would be willing to participate in any group as noted in the resolution.

Thank you for the opportunity to testify.

Respectfully submitted,

PATRICIA M. NIELSEN
Chairperson
Legislative Committee

FRANCINE WAI
Executive Director

NATIONAL DISASTER PREPAREDNESS TRAINING CENTER



UNIVERSITY *of* HAWAI'I®
MĀNOA

Karl Kim
Professor and Chair
Department of Urban and Regional Planning
University of Hawai'i Mānoa





NATIONAL DOMESTIC PREPAREDNESS CONSORTIUM

NDPC mission...

To enhance the preparedness of federal, state, local, and tribal emergency responders/first receivers and teams, including non-governmental organizations and the private sector, to reduce the Nation's vulnerability to incidents involving weapons of mass destruction, terrorism and all-hazard high-consequence events by developing, delivering and assessing plans, training, technical assistance and exercises.

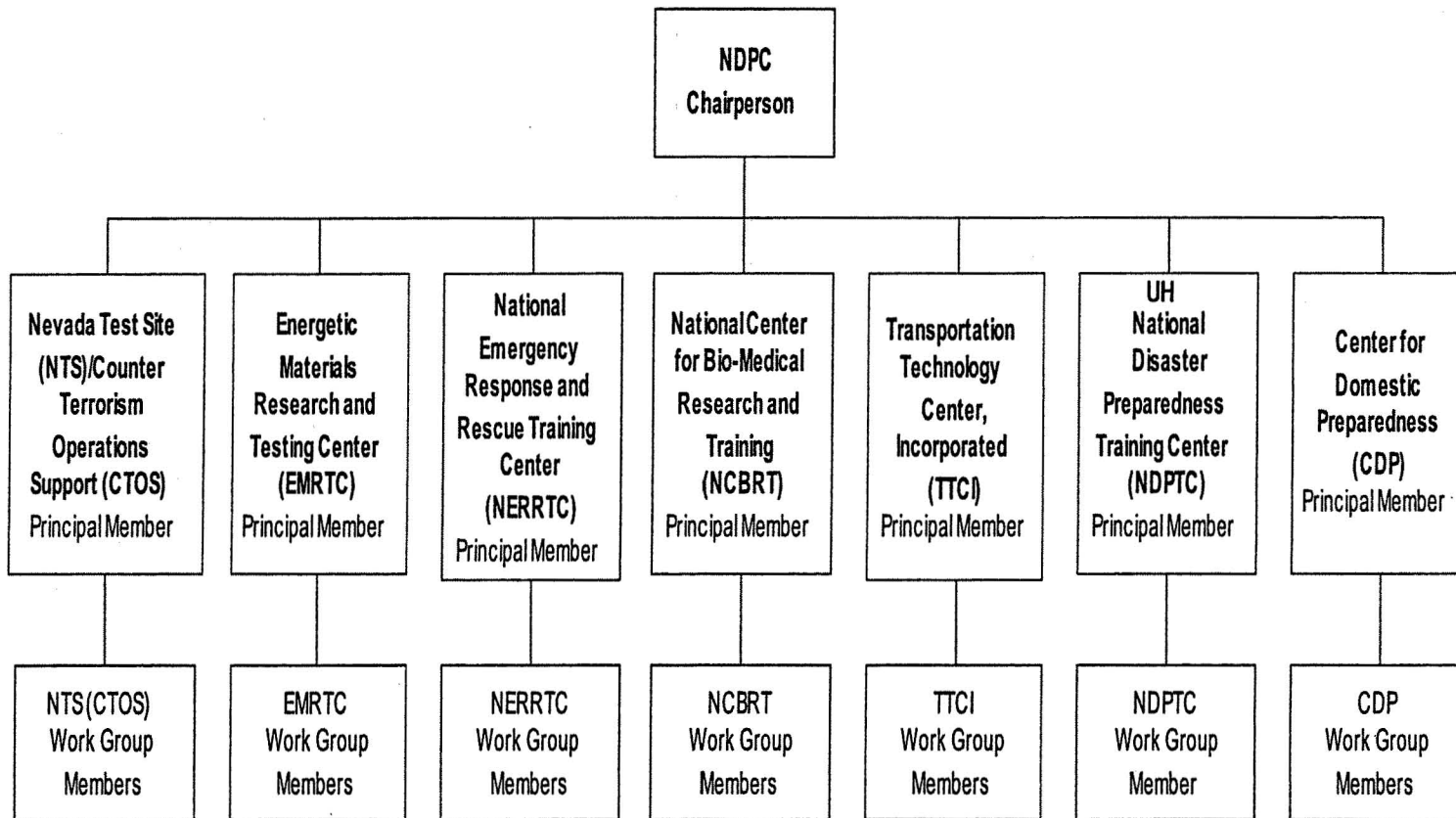
NDPC history...

- Originally established by Congressional Mandate September 1998 (House Conference Report [H.R.2267]).
- Reconfirmed in Public Law 107-273 in 2001.
- Membership based on the urgent need to address the serious counterterrorism preparedness needs of our nation's emergency responders within the context of chemical, biological, radiological, and explosive (Weapons of Mass Destruction [WMD]) hazards.
- Expanded to address catastrophic all-hazards events.
- Re-authorized in Homeland Security Legislation January 2007 in HR-1 through FY 2011 and two new members were added to the Consortium (TTCI and UH).

FEMA

NDPC

NDPC organization...

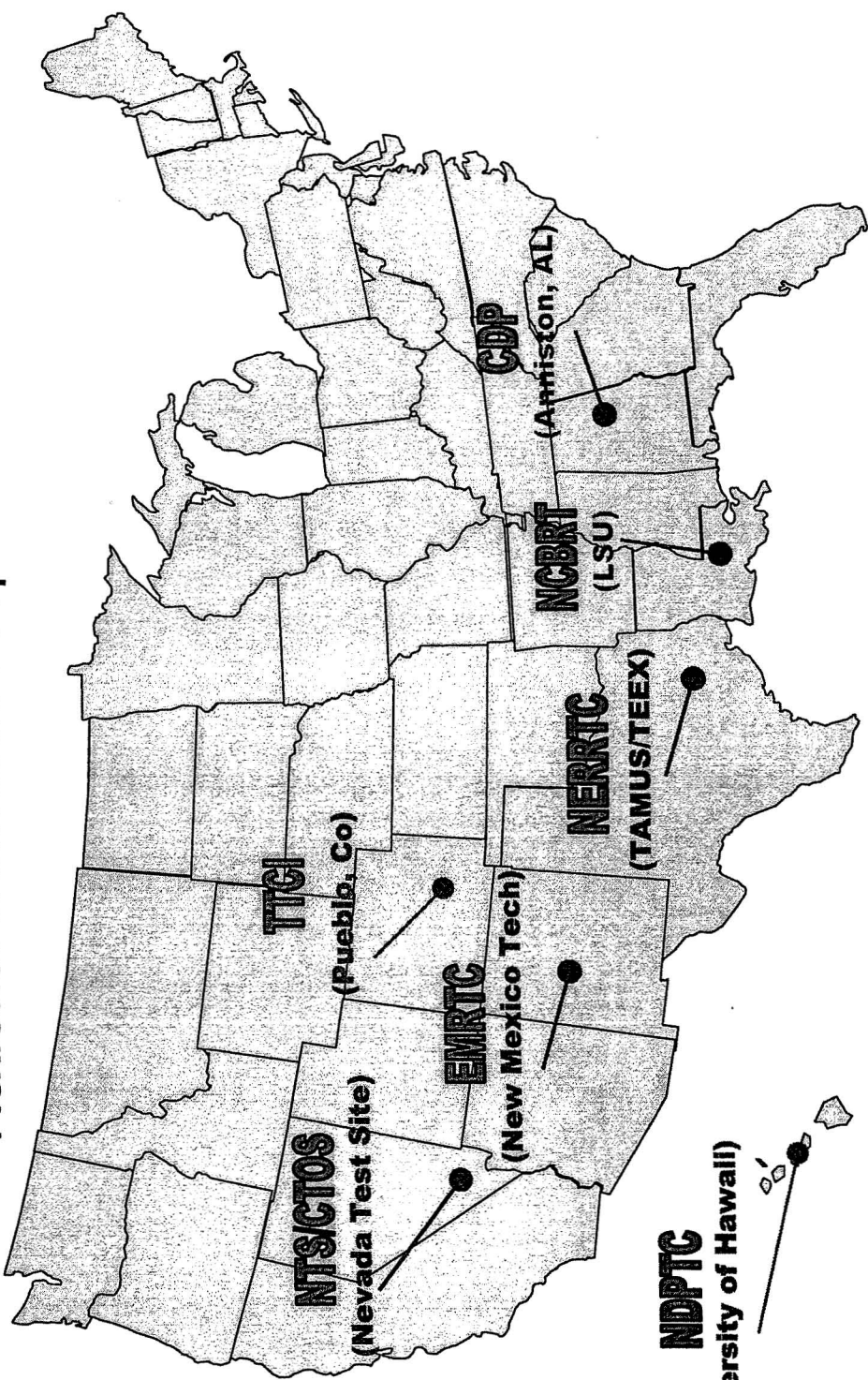


FEMA

NDPC

Our Locations...

National Domestic Preparedness Consortium



NDPC

FEMA



Our competencies...

- **EMRTC** Explosive and incendiary attacks
- **NERRTC** Incident Management, EMS, Hazmat, Public Works, Threat and Risk Assessment, Senior Executive Programs
- **NCBRT** Prevention, deterrence and response to terrorist acts, chem-/bio-/ag-related terrorism response
- **CTOS** Prevention, deterrence and response to radiological/nuclear attacks
- **CDP** Prevention, deterrence and response to Chemical, biological and nuclear attacks involving hazmat
- **TTCI** Transportation research and testing organization, providing emerging technology solutions for the railway industry
- **NDPTC** Monitoring natural hazards, evaluating risks to urban populations and planning for the response, recovery and reconstruction of areas following a disaster.

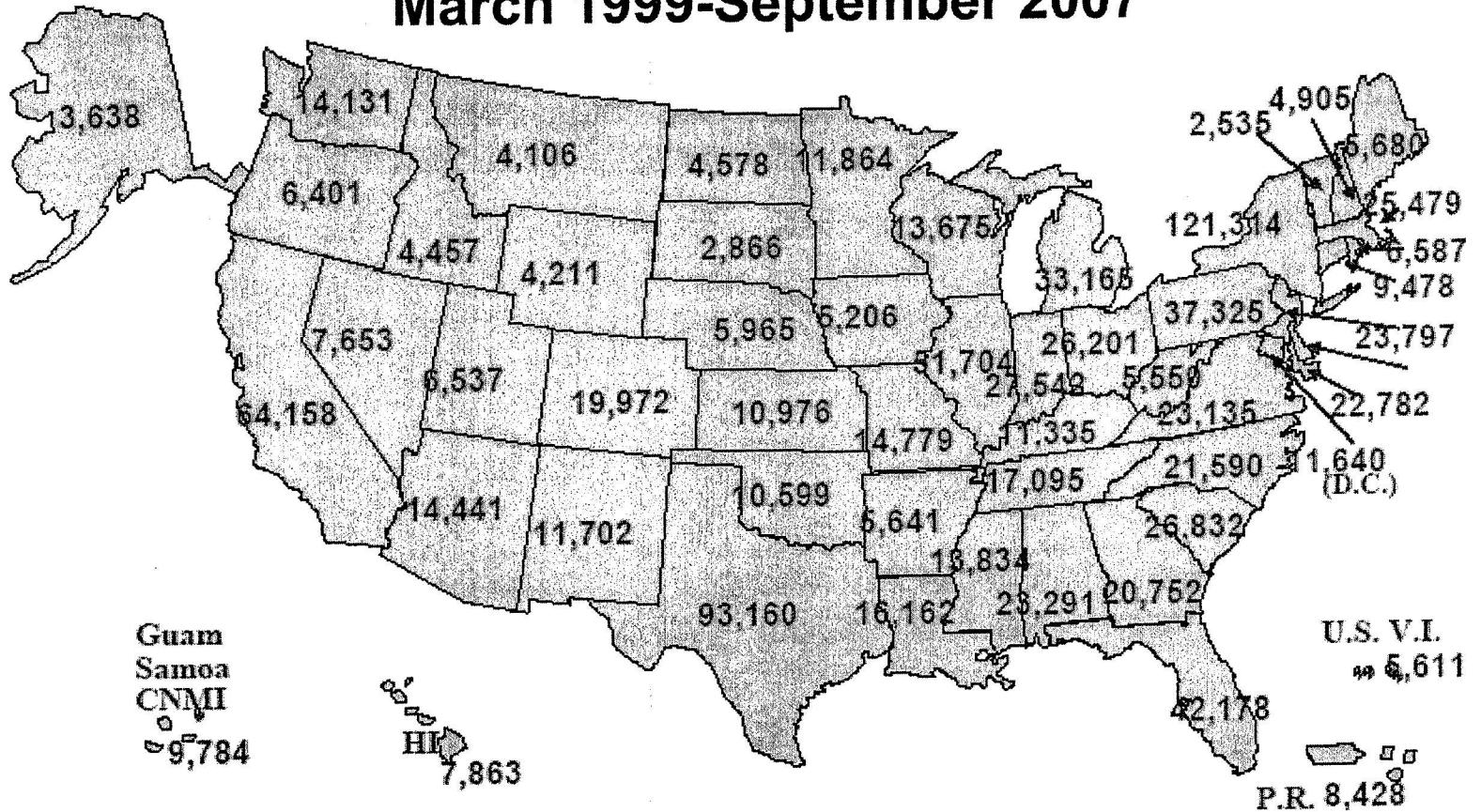
FEMA

NDPC



Where we train...

March 1999-September 2007



Participants: 1,017,209

Deliveries: 28,763

FEMA

NDPC



NATIONAL DISASTER PREPAREDNESS
TRAINING CENTER
UNIVERSITY of HAWAI'I
MĀNOA

MISSION STATEMENT

Uniquely positioned geographically and culturally, the **National Disaster Preparedness Training Center** at the University of Hawai'i Mānoa will develop and deliver disaster preparedness training to governmental, private, and non-profit entities, incorporating urban planning with an emphasis on community preparedness and at risk populations.





Core Capabilities

- Natural disaster management
- Humanitarian assistance
- Urban planning
- Community asset-building
- Nationally- and internationally-recognized research and academic programs

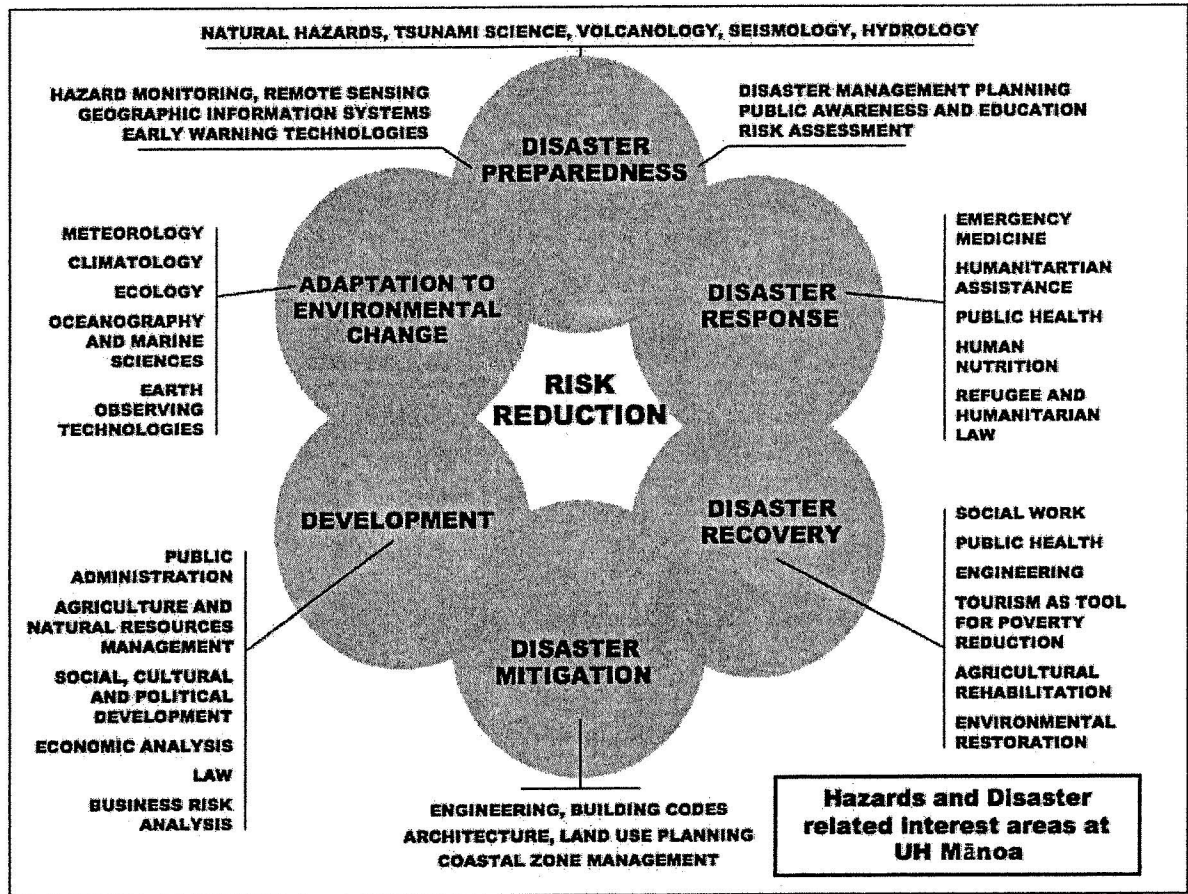
NATIONAL PRIORITY

Strengthen Planning and Citizen Preparedness Capabilities

TARGET CAPABILITIES

- Planning Capability
- Citizen Evacuation and Shelter-in-Place Capability
- Community Preparedness and Participation Capability
- Continuity of Operations / Continuity of Government Capability
- Critical Resource Logistics and Distribution Capability
- Risk Management
- Critical Infrastructure Protection
- Economic and Community Recovery

Interdisciplinary





Partnerships

- PRiMO

The Pacific Risk Management 'Ohana is comprised of representatives from local, national, and regional agencies, institutions, organizations, and academia engaged in building disaster resilient communities in the Pacific Islands.

- PDC

The Pacific Disaster Center is an applied science, information and technology center, working to reduce disaster risks and impacts to peoples' lives and property.

- COE

The Center for Excellence in Disaster Management and Humanitarian Assistance's mission is to promote effective civil-military management in international humanitarian assistance, disaster response and peacekeeping through education, training, research and information programs.

- EMI

Emergency Management Institute

Dan Inouye

U.S. SENATOR FROM HAWAII



Senate Approves UH as National Disaster Preparedness Training Center

Friday, July 27, 2007
For Immediate Release

WASHINGTON — U.S. Senator Daniel K. Inouye announced today that the University of Hawaii is close to becoming a National Disaster Preparedness Training Center for the Department of Homeland Security (DHS).

The creation of the training center is authorized in the conference report to the Improving America's Security Act of 2007, which enhances homeland security by implementing recommendations of the 9/11 Commission. The measure directs the National Domestic Preparedness Consortium (NDPC) within the DHS to create the University of Hawaii Center of Excellence for Natural Disaster Preparedness Training.

The Senate, by a vote of 85 to 8, approved the conference report late Thursday, July 26, 2007. The report is now awaiting final approval by the House of Representatives; when that happens, the measure will move to the White House for the President to sign into law.

“Our nation’s first responders need state-of-the-art tools and the highest level of training to keep Americans safe and secure in the aftermath of a natural disaster,” Senator Inouye said. “But in the wake of the Gulf Coast hurricanes, it became apparent that our country is not adequately prepared to handle such situations.

“The University of Hawaii is the premier center of education and research in the area of natural disaster analysis and risk reduction. No university is better suited to prepare first responders for what they will face in the wake natural disasters. I am proud that UH can contribute its expertise to this important nationwide mission.”

At the request of Senator Inouye, the provision authorizing the creation of a National Disaster Preparedness Training Center at UH was included in the measure during conference negotiations.

The NDPC is the principal vehicle through which the DHS Office of Grants and Training (G&T) identifies, develops, tests, and delivers training to state and local emergency

responders. G&T draws upon a coalition of “training partners” in the development and delivery of its training programs. This coalition is composed of government training facilities, academic institutions, and private organizations, all of which are committed to the task of providing a variety of specialized, state-of-the-art training for emergency responders across the country. Currently, the NDPC does not include a specialization in natural disaster risk reduction.

The University of Hawaii Center of Excellence for Natural Disaster Preparedness Training would conduct research and develop scientific models and tools for monitoring natural hazards, evaluating risks to urban populations, and planning for the response, recovery, and reconstruction of critical urban infrastructure in the aftermath of natural disasters. The Center would develop and deliver training to urban first responders, decision-makers, policy-analysts, and urban planners. The Center also would create a data warehouse for storing, retrieving, and distributing physical, environmental, economic, and social data related to natural hazards.



Posted on: Saturday, July 28, 2007

Hawaii university may get U.S. disaster center

Advertiser Staff and News Services

The University of Hawai'i-Manoa could become home to a national disaster preparedness training center for the Department of Homeland Security.

The center would conduct research and develop specific models and tools for monitoring natural hazards and evaluating risks to urban areas, while planning for the response, recovery and reconstruction of the community in the aftermath of natural disasters, U.S. Sen. Daniel Inouye said yesterday.

Thursday's Senate action authorized the program, but funding will have to be applied for next year. The center, while approved by the Senate yesterday in an 85-8 vote, still must be voted on by the House and considered by President Bush.

Inouye, D-Hawai'i, said the nation's first responders need state-of-the-art tools and a high level of training to keep Americans safe in the aftermath of a natural disaster.

"In the wake of the Gulf Coast hurricanes, it became apparent that our country is not adequately prepared to handle such situations," Inouye said.

Gregg Takayama, UH spokes-man, said the program was applied for by the UH Urban and Regional Planning Department.

"We're really grateful to the senator for doing this," Takayama said. "We're probably the only campus in the nation to sustain damage from a flood, earthquake and fire in the span of four years. We're experienced with dealing with damages."

The amount of the funding has not been determined, nor if the center will require a physical structure, Takayama said.

Inouye said the University of Hawai'i was selected because it is the premier center for education and research in the area of natural disaster analysis and risk reduction.

"No university is better suited to prepare first responders for what they will face in the wake of natural disasters," he said.

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Vol. 12, Issue 209 - Saturday, July 28, 2007

UH crisis training center proposed

The facility is part of a national security bill passed by Congress

By Alexandre Da Silva / adasilva@starbulletin.com

The University of Hawaii would house a national disaster preparedness training center under a bill moving through Congress, U.S. Sen. Daniel Inouye said yesterday.

A proposed "Center of Excellence for Natural Disaster Preparedness Training" at the university is included in a conference report that was approved by the Senate in an 85-8 vote late Thursday.

The report is part of a bill carrying recommendations by the 9/11 Commission to improve national security that still must be signed into law by President Bush.

The planned center would conduct research and develop scientific models and tools for monitoring natural hazards, evaluating risks to urban populations and planning for the response, recovery and reconstruction of areas following a natural disaster.

It would also deliver training to first responders, planners and policy analysts in urban areas and maintain a database with physical, environmental, economic and social information related to natural hazards.

"Our nation's first responders need state-of-the-art tools and the highest level of training to keep Americans safe and secure in the aftermath of a natural disaster," Inouye said in a news release. "But in the wake of the Gulf Coast hurricanes, it became apparent that our country is not adequately prepared to handle such situations."

The Hawaii center would become the country's only dedicated center for natural-disaster preparedness under the Department of Homeland Security's Office of Grants and Training, which has partnerships with other universities to work on things like biomedical research and engineering.

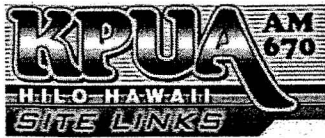
The center would be managed through UH-Manoa but not necessarily be located on the campus, said UH spokesman Gregg Takayama.

He noted that the university has experience in dealing with recent natural disasters. Since 2004 the school has been hit by a devastating flood that caused millions of dollars in damage, a fire that destroyed four College of Education classrooms, and a magnitude-6.7 earthquake.

Inouye said he asked for a provision to have the disaster center at UH because of the school's expertise in the area.

"No university is better suited to prepare first responders for what they will face in the wake of natural disasters," he said.

Article URL: <http://starbulletin.com/2007/07/28/news/story06.html>
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KPUA Program Schedule
Election Coverage

Today's KPUA Program Schedule:

- 12:00AM Bloomberg-The First Word
- 04:00AM First Light
- 05:00AM America In The Morning with Jim Bohannon
- 06:00AM KPUA Morning News with anchor Ken Hupp
- 09:00AM Community Forum
- 10:00AM Rush Limbaugh
- 01:00PM Dr. Dean Edell
- 02:00PM Dateline: Washington
- 03:00PM Sporting News
- 04:00PM Sports Byline with Ron Barr
- 07:00PM Coast to Coast

[Click here for showtimes & complete program lineup.](#)

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- [San Francisco 49ers](#)
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Hilo, Hawaii News, Sports, & Information

Monday, March 17, 2008



HAWAII NEWS

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Posted: Friday, July 27th, 2007 1:32 PM HST

University of Hawaii may house national disaster training center

By Associated Press

HONOLULU (AP) _ Senator Daniel Inouye says the University of Hawaii may become home to a national disaster preparedness training center for the Department of Homeland Security.

The creation of the training center is authorized in a conference report that was overwhelmingly approved by the Senate yesterday. The report is now awaiting final approval by the House before being considered by President Bush.

The center is the principal vehicle through which the Department of Homeland Security's Office of Grants and Training identifies, develops, tests and delivers training to emergency responders.

Inouye says the nation's first responders need state-of-the-art tools and the highest level of training to keep Americans safe in the aftermath of a natural disaster.

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National News

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- [Man Shot in Standoff at Colo. Hospital](#)
- [Man Says Ricin Belonged to His Brother](#)
- [Deputy in Till Investigation Dies at 93](#)

Sports

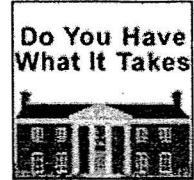
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- [Bear Stearns, Siemens Among Big Movers](#)



(1) IN GENERAL- Except as provided in paragraph (2), the Secretary shall provide a semiannual report to the Committee on Homeland Security and Governmental Affairs, the Committee on Commerce, Science, and Transportation, and the Committee on Banking, Housing, and Urban Affairs of the Senate and the Committee on Homeland Security and the Committee on Transportation and Infrastructure of the House of Representatives that includes--

- (A) the number of public and private stakeholders who were provided with each report;
- (B) a description of the measures the Secretary has taken, under section 114(u)(7) of title 49, United States Code, as added by this section, or otherwise, to ensure proper treatment and security for any classified information to be shared with the public and private stakeholders under the Plan; and
- (C) an explanation of the reason for the denial of transportation security information to any stakeholder who had previously received such information.

(2) NO REPORT REQUIRED IF NO CHANGES IN STAKEHOLDERS- The Secretary is not required to provide a semiannual report under paragraph (1) if no stakeholders have been added to or removed from the group of persons with whom transportation security information is shared under the plan since the end of the period covered by the last preceding semiannual report.

SEC. 1204. NATIONAL DOMESTIC PREPAREDNESS CONSORTIUM.

(a) In General- The Secretary is authorized to establish, operate, and maintain a National Domestic Preparedness Consortium within the Department.

(b) Members- Members of the National Domestic Preparedness Consortium shall consist of--

- (1) the Center for Domestic Preparedness;
- (2) the National Energetic Materials Research and Testing Center, New Mexico Institute of Mining and Technology;
- (3) the National Center for Biomedical Research and Training, Louisiana State University;
- (4) the National Emergency Response and Rescue Training Center, Texas A&M University;
- (5) the National Exercise, Test, and Training Center, Nevada Test Site;
- (6) the Transportation Technology Center, Incorporated, in Pueblo, Colorado; and
- (7) the National Disaster Preparedness Training Center, University of Hawaii.

(c) Duties- The National Domestic Preparedness Consortium shall identify, develop, test, and deliver training to State, local, and tribal emergency response providers, provide on-site and mobile training at the performance and management and planning levels, and facilitate the delivery of training by the training partners of the Department.

(d) Authorization of Appropriations- There are authorized to be appropriated to the Secretary--

(1) for the Center for Domestic Preparedness--

- (A) \$57,000,000 for fiscal year 2008;
- (B) \$60,000,000 for fiscal year 2009;
- (C) \$63,000,000 for fiscal year 2010; and
- (D) \$66,000,000 for fiscal year 2011; and

(2) for the National Energetic Materials Research and Testing Center, the National Center for Biomedical Research and Training, the National Emergency Response and Rescue Training Center, the National Exercise, Test, and Training Center, the Transportation Technology Center, Incorporated, and the National Disaster Preparedness Training Center each--

- (A) \$22,000,000 for fiscal year 2008;

- (B) \$23,000,000 for fiscal year 2009;
- (C) \$24,000,000 for fiscal year 2010; and
- (D) \$25,500,000 for fiscal year 2011.

(e) Savings Provision- From the amounts appropriated pursuant to this section, the Secretary shall ensure that future amounts provided to each of the following entities are not less than the amounts provided to each such entity for participation in the Consortium in fiscal year 2007--

- (1) the Center for Domestic Preparedness;
- (2) the National Energetic Materials Research and Testing Center, New Mexico Institute of Mining and Technology;
- (3) the National Center for Biomedical Research and Training, Louisiana State University;
- (4) the National Emergency Response and Rescue Training Center, Texas A&M University; and
- (5) the National Exercise, Test, and Training Center, Nevada Test Site.

SEC. 1205. NATIONAL TRANSPORTATION SECURITY CENTER OF EXCELLENCE.

(a) Establishment- The Secretary shall establish a National Transportation Security Center of Excellence to conduct research and education activities, and to develop or provide professional security training, including the training of transportation employees and transportation professionals.

(b) Designation- The Secretary shall select one of the institutions identified in subsection (c) as the lead institution responsible for coordinating the National Transportation Security Center of Excellence.

(c) Member Institutions-

(1) CONSORTIUM- The institution of higher education selected under subsection (b) shall execute agreements with the other institutions of higher education identified in this subsection and other institutions designated by the Secretary to develop a consortium to assist in accomplishing the goals of the Center.

(2) MEMBERS- The National Transportation Security Center of Excellence shall consist of--

- (A) Texas Southern University in Houston, Texas;
- (B) the National Transit Institute at Rutgers, The State University of New Jersey;
- (C) Tougaloo College;
- (D) the Connecticut Transportation Institute at the University of Connecticut;
- (E) the Homeland Security Management Institute, Long Island University;
- (F) the Mack-Blackwell National Rural Transportation Study Center at the University of Arkansas; and
- (G) any additional institutions or facilities designated by the Secretary.

(3) CERTAIN INCLUSIONS- To the extent practicable, the Secretary shall ensure that an appropriate number of any additional consortium colleges or universities designated by the Secretary under this subsection are Historically Black Colleges and Universities, Hispanic Serving Institutions, and Indian Tribally Controlled Colleges and Universities.

(d) Authorization of Appropriations- There are authorized to be appropriated to carry out this section--

- (1) \$18,000,000 for fiscal year 2008;
- (2) \$18,000,000 for fiscal year 2009;
- (3) \$18,000,000 for fiscal year 2010; and

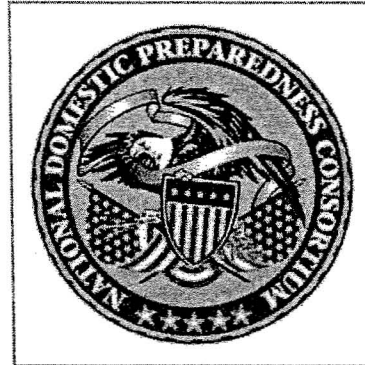


- [CDP Home](#)
- [Consortium](#)

Consortium

The National Domestic Preparedness Consortium

The National Domestic Preparedness Consortium (NDPC) is the principal vehicle through which the Office of Grants and Training (G&T) identifies, develops, tests, and delivers training to state and local emergency responders. The NDPC membership includes G&T's Center for Domestic Preparedness in Anniston, Alabama, the New Mexico Institute of Mining and Technology, Louisiana State University, Texas A&M University, and the Department of Energy's Nevada Test Site; each member brings a unique set of assets to the domestic preparedness program. The following is brief description of each member and their expertise:



NOTE: All links will open in a new window

Center for Domestic Preparedness (CDP): The CDP provides hands-on specialized training to state and local emergency responders in the management and remediation of Weapons of Mass Destruction (WMD) incidents. Located at the former home of the U.S. Army Chemical School, Fort McClellan, the CDP conducts toxic agent training for the nation's civilian emergency response community. The training emergency responders receive at the CDP provides a valid method for ensuring high levels of confidence in equipment, procedures, and individual capabilities. For additional information on this program, call 1-866-213-9553 or e-mail studentservices@cdpemail.dhs.gov.

New Mexico Institute of Mining and Technology (NMIMT) National Energetic Materials Research and Testing Center: NMIMT offers live explosive training including the use of field exercises and classroom instruction. NMIMT is the lead NDPC partner for explosives and firearms, live explosives, and incendiary devices training. NMIMT offers one course of instruction, the Incident Response to Terrorist Bombing course. For additional information on NMIMT courses contact NMIMT at <http://www.emrtc.nmt.edu>

National Center for Biomedical Research and Training: The National Center for Biomedical Research and Training (NCBRT), Academy of Counter-Terrorist Education at Louisiana State University (LSU) is a founding member of the National Domestic Preparedness Consortium (NDPC) and has been involved in the development and delivery of training and related efforts in support of the Office for State and Local Domestic Preparedness Support since 1998, and now for the Office for Grants and Training (G&T). Since that time, the NCBRT has developed and delivered for the U.S. Departments of Homeland Security, Justice, Health and Human Services, and Agriculture, as well as for State and local jurisdictions, non-governmental organizations, and the private sector, many courses dealing with Weapons of Mass Destruction, counter-terrorism, and high consequence events, for all disciplines including emergency management, law enforcement (including tactical operations), HazMat teams, public health, EMS, hospital, agricultural, and others. The NCBRT has also developed and delivered numerous workshops and seminars, developed scenarios and exercises, and has provided technical assistance to governmental and non-governmental entities. Not only are the capabilities of the NCBRT wide and deep, but they can be readily augmented by the scientists, researchers, and educators available from LSU, the flagship university of Louisiana. For additional information on NCBRT courses, contact LSU at <http://www.ncbrt.lsu.edu/>

Texas A&M University National Emergency Response and Rescue Training Center: Texas A&M delivers a set of courses to prepare public officials, emergency medical services, law enforcement, fire protection, and public works for the threat posed by WMD. Courses are developed and designed to provide each specific segment of the emergency response community with the tools needed to accomplish its role in the event of a WMD incident. Additionally, Texas A&M has developed an Interactive Internet WMD Awareness Course for emergency responders. Texas A&M also provides technical assistance to state and local jurisdictions in the development of WMD assessment plans. Texas Engineering Extension Service (TEEX) offers the following courses of instruction: WMD Threat and Risk Assessment, WMD Incident Management/Unified Command, Emergency Response to Terrorism Basic Concepts, Emergency Medical Operations, and WMD Awareness (Internet course). For additional information on TEEX courses contact TEEX at <http://www.teex.com> or nerrtc@teexmail.tamu.edu

U.S. Department of Energy's Nevada Test Site (NTS) National Exercise, Test, and Training Center: NTS conducts large-scale field exercises using a wide range of live agent stimulants, as well as explosives. NTS develops and delivers a Radiological/Nuclear Agents course. NTS, in coordination with G&T, is establishing the Center for Exercise Excellence. The Center will allow NTS to train jurisdictions in the planning and conduct of exercises, tailored to the unique threats faced by participating jurisdictions. The Center will provide a critically needed new component of the overall exercise training program, meeting those special exercise needs as the state and local jurisdictions define their exercise priorities. For additional information on NTS courses contact NTS at <http://www.nv.doe.gov/combatingterrorism>

Last Reviewed: February 20, 2008

The University of Hawai'i at Manoa provides a logical location for an Asia Pacific disaster risk reduction research and institutional capacity-building program. The program responds to the compelling need to improve hazard and disaster mitigation and response in the face of increasingly frequent and severe disaster events. The Asia Pacific region suffers the greatest impact of disaster events worldwide, and Hawai'i shares many of these same vulnerabilities. By interacting with hazard and disaster researchers at UH Manoa and Hawai'i's existing dynamic community of disaster management organizations, students learn how to help build disaster resilient communities.

Our students come from many different academic backgrounds. Some have degrees in the physical and natural sciences, some from engineering, geography, public administration, social work, political science and other social science disciplines. Others are pursuing professional degrees in law, medicine or public health. Our students tend to be highly motivated to apply their respective disciplinary backgrounds to the problems of reducing the impacts of disaster on people and communities.

FOR FURTHER INFORMATION, CONTACT:

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Humanitarian Assistance
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Website: <http://www2.hawaii.edu/~dmha/>

*The University of Hawai'i at Manoa is an equal
opportunity/affirmative action institution*

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Disaster Management and Humanitarian Assistance



The Disaster Cycle Concept



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Website: <http://www2.hawaii.edu/~dmha/>
E-Mail: karlk@hawaii.edu

DMHA Core Certificate Courses

PLAN 670 Interdisciplinary Seminar in Disaster Management & Humanitarian Assistance (3)

A comprehensive seminar and overview of the field. Learning objectives include developing a common language for cross-disciplinary interchange and collaboration. Coverage includes distinguishing and comparing natural hazard disasters and human-induced disasters. Understanding the disaster cycle concept; integrating response, recovery, mitigation, disaster resilient development, and preparedness. Understanding of the diversity of participants and stakeholders in the hazards and disaster community. Finding the appropriate scale; local, national, regional, global. Formatted as a guest lecture seminar.

PLAN 671 Disaster Management: Understanding the Nature Hazards (3)

An overview of the science of hazards, including hazard types, the impacts of hazards, observing, monitoring and forecasting hazard events, mitigation and response, risk and vulnerability assessment. Addressing the linkages required from basic scientific knowledge about hazards through to applied technologies for mitigation, to public information, early warning and preparedness and the public administration of emergency management.

PLAN 672 Humanitarian Assistance: Principles, Practices and Politics (3)

A multidisciplinary look at how the world responds to disaster, crisis and deprivation. The course provides an opportunity to understand both the basic working structure of humanitarian assistance programs and the theoretical basis for contemporary practice. The major component functions of humanitarian assistance: health & medical services; water supply & sanitation; nutrition & food security; shelter, settlement & infrastructure. How humanitarian work is funded, by who, and why; accountability- or the lack thereof; emergent professionalism and the problem of standards, management issues in aid administration.

PLAN 672 Information Systems for Disaster Management and Humanitarian Assistance (3)

Optional course: Students who intend to pursue operational activities in the field are encouraged to take this core course.

Remote sensing technologies allow for the acquisition of useful observations of hazard phenomena, facilitating the development of monitoring and early warning systems. GIS benefits all aspects of the emergency management cycle from planning, mitigation and preparedness through response and recovery by integrating complex data in a geographic framework that produces actionable information. The course will also introduce satellite communications and other information and communications technologies used in disaster management.

Graduate Certificate in Disaster Management and Humanitarian Assistance

Graduate students are required to take at least three of the DMHA core courses for a base of nine units. The remaining six units would be selected with advisement from courses related to hazards and disaster management. Many departments offer courses which can complement the core course sequence in a coherent, rigorous and pedagogically valid way. Some examples are listed below for illustration purposes.

Example 1. A Meteorology graduate student might take PLAN 670, the Interdisciplinary Seminar, PLAN 671 Disaster Management: Hazards, and PLAN 673, Information Systems for DMHA, for a total of nine core units, along with selected Meteorology courses on Tropical Cyclones, Monsoon Meteorology, or Large-Scale Ocean-Atmosphere Interactions to complete 15 units. The focal area would be hazards arising from severe weather.

Example 2. A Geology and Geophysics graduate student might take PLAN 670, the Interdisciplinary Seminar, PLAN 671 Disaster Management: Hazards, and PLAN 673, Information Systems for DMHA along with G&G courses on Explosive Volcanism, Seismology, and Fractures and Faults. The focal area would be geophysical hazards.

Example 3. A Social Work graduate student might take PLAN 670, the Interdisciplinary Seminar, PLAN 672 Humanitarian Assistance, and PLAN 673 Information Systems for DMHA with SW courses such as Social Work Practice in Communities and Organizations, Child Welfare, and Ethnic and Minority Content. The focal area would be on the delivery of assistance to disaster-vulnerable groups.

Example 4. A Public Health graduate student might take PLAN 670, the Interdisciplinary Seminar, PLAN 672 Humanitarian Assistance, and PLAN 673 Information Systems for DMHA with PH courses on Epidemiology, Tropical Medicine and Microbiology, and Community and Public Health Practice. The focal area would be on public health responses to disaster events.

Many more examples are possible. The program works within the "all hazards" framework, and incorporates the "disaster cycle" model, integrating activities from relief to rehabilitation, to mitigation and preparedness. As such, participation from a wide range of disciplinary perspectives is desirable.

For more information on crafting a DMHA program curriculum tailored to your own disciplinary interests, please contact the Program Coordinator.

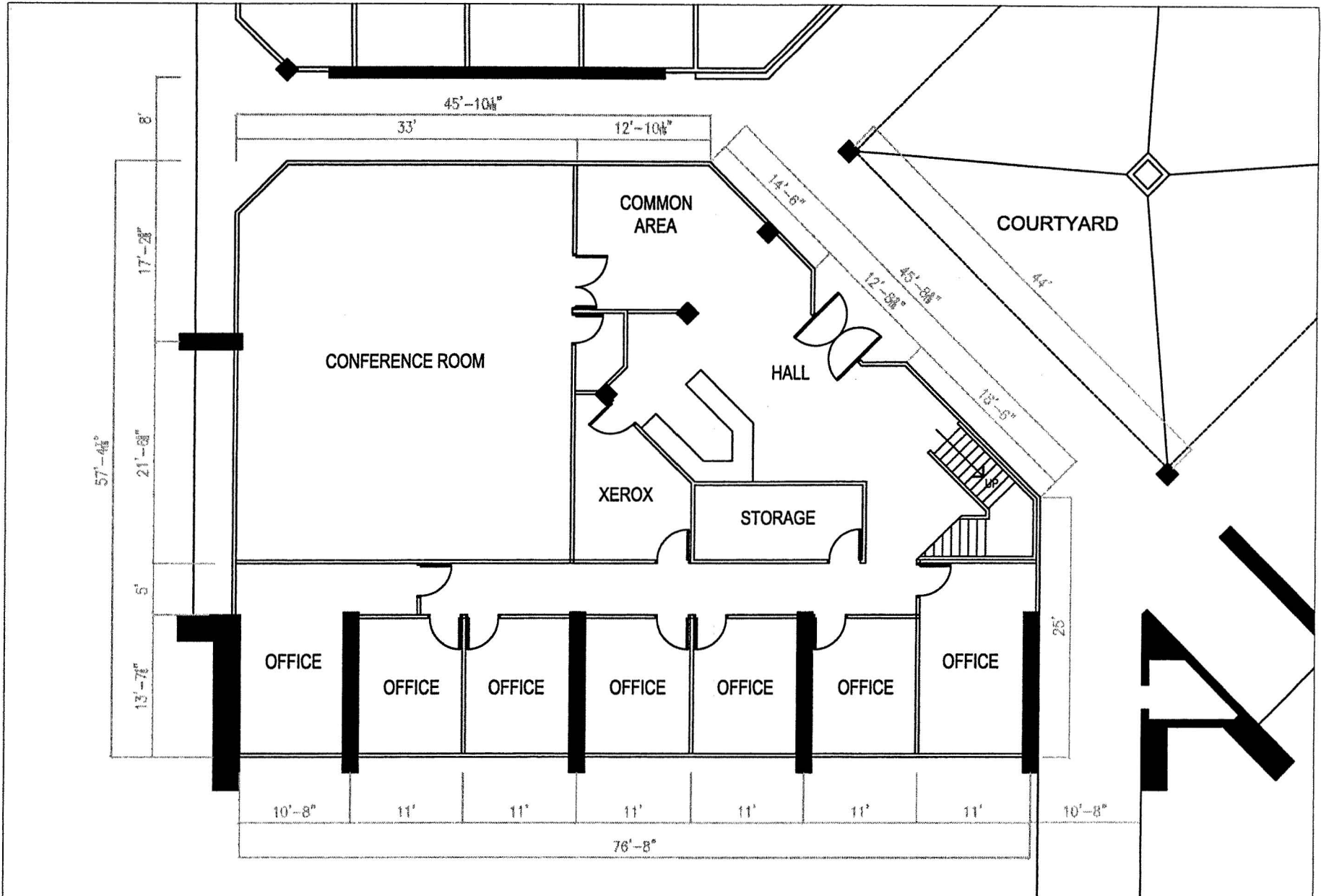
Special Instructions

1. If you have a question about your qualification to take a course, please contact the instructor.
2. If you are an undergraduate student proposing to take a graduate level course, you must obtain permission from the Departmental Chair.
3. If you are a classified or unclassified student, you register for courses in the usual manner.
4. If you are not currently registered at UH Manoa, you may take courses in DMHA / Urban and Regional Planning (for credit or as an auditor) if you meet the prerequisites and have graduated from a regionally-accredited college or university. The procedure is as follows:
 - A. Obtain a Permission to Enroll form from the Department specifying the full title and number of the course (or courses) in which you desire to enroll and certify that you are qualified to do so; and
 - B. Register on or prior to the first day of class with the Outreach College:
 - 1) in person at Krauss Hall 101 from Mondays - Fridays at 8:00am - 5:30pm or
 - 2) by mail using a registration packet which may be obtained by calling the Outreach College, 956-7221

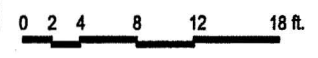
Outreach College requires that the Departmental Permission to Enroll form be submitted at the time of registration.

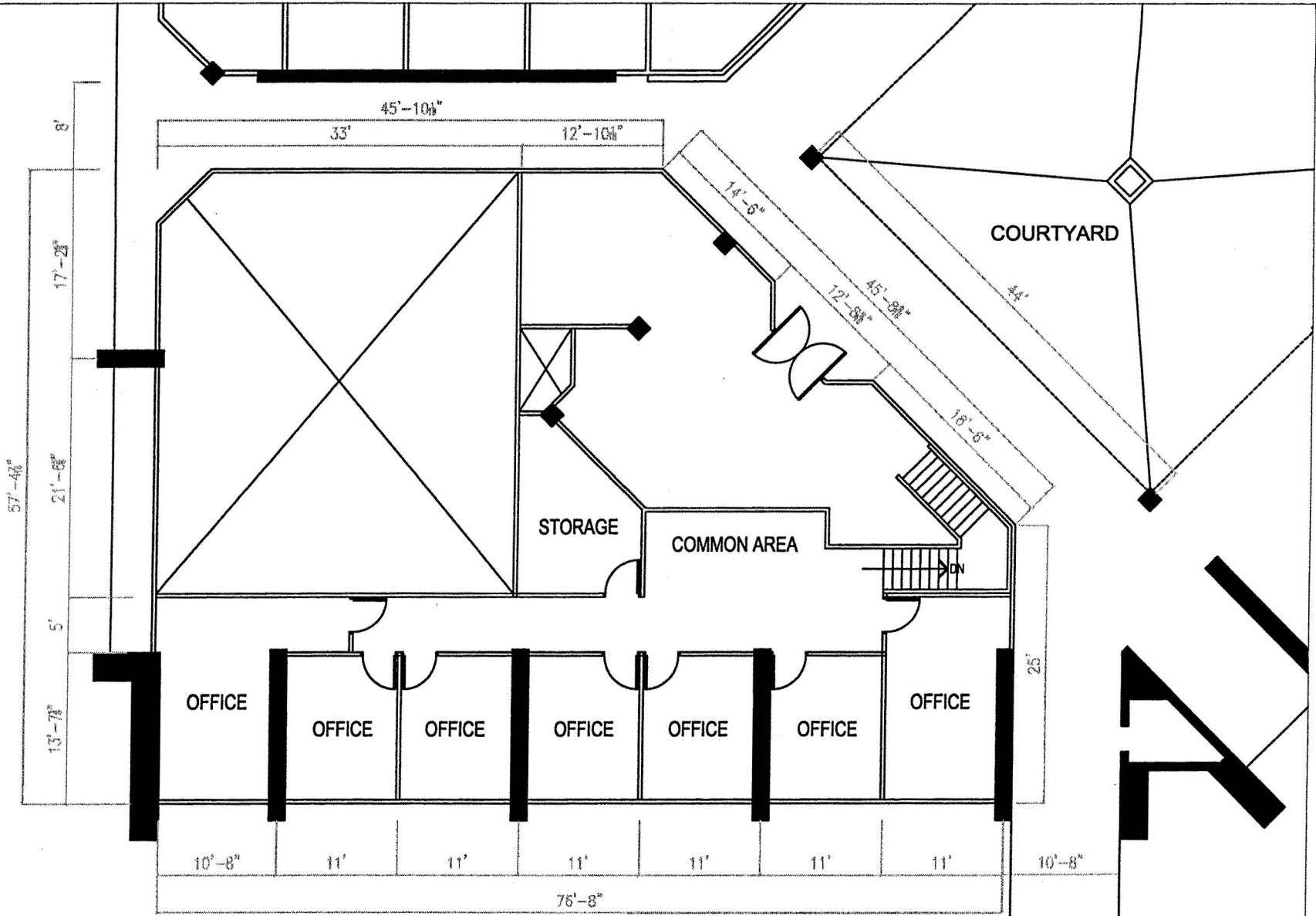
Special Notes:

- A. Tuition and applicable fees are paid directly to Outreach College at the time of registration.
- B. Grades for Fall semester are posted online on myUH.
- C. Students whose native language is not English and who do not have a U.S. bachelor's degree must submit either their TOFEL, IELTS, or GRE results along with their application before registering for any Urban and Regional Planning course. Or the student can take English 100 at UH which will waive the submission of a test score if the student finishes the class with a passing grade.



1st FLOOR PLAN





2nd FLOOR PLAN

