RCE Summit
SDG 4 Panel: Quality Education
University of Texas Dallas

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Presentation Overview

- Institutional context
- Forces of Change
- College of Architecture Planning and Public Affairs Actions
Institutional Context
University of Texas Arlington

- 180 UG, GR, PhD degrees, & more than 60,000 students on our campus or online in 2022

- Classified by the Carnegie Foundation as a Research-1 Institution.

- 65% of our 250,000 Alumni are still in the DFW/North Texas Region.

- No. 3 nationally by U.S. News & World Report for the ethnic diversity of its UG students.

- Designated by the (DoEd) as an Hispanic Serving Institution (HSI) and an Asian American and Native American Pacific Islander Serving Institution (AANAPISI).
Institutional Context

School of Architecture, CAPPA

- 50% First Generation College Students in the School of Architecture.
- 53% Female students enrolled Fall 2022.
- 45% Hispanic/Latino students. Up 13% over the past decade.
- Enrollment trends put us on track to become one of the largest SoA in the country by 2025.
Forces of Change
Bringing about greater awareness for SDG importance

- National Architecture Accreditation Board
- Council for Interior Design Accreditation
- American Society of Interior Designers
- American Institute of Architects
- Faculty Research / Teaching
- Professional and Community Partnerships
- Students!
Forces of Change
Bringing about greater awareness for SDG importance

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Forces of Change
Accreditation Standards

2014 NAAB Program and Student Criteria

1.1 Program Criteria
- 1.1 History and Mission.
- 1.2 Learning Culture
- 1.3 Social Equity
- 1.4 Defining Perspectives
- 1.5 Long-Range Planning
- 1.6 Assessment

1.2 Student Criteria: Student Performance Criteria (SPC)
- Realm A: Critical Thinking and Representation
- Realm B: Building Practices, Technical Skills, and Knowledge
- Realm C: Integrated Architectural Solutions
- Realm D: Professional Practice

2022 NAAB Program and Student Criteria

1.1 Program Criteria
- PC.1 Career Paths
- PC.2 Design
- PC.3 Ecological Literacy and Responsibility
- PC.4 History and Theory
- PC.5 Research and Innovation
- PC.6 Leadership and Collaboration
- PC.7 Learning and Teaching Culture
- PC.8 Social Equity and Inclusion

1.2 Student Criteria: Student Learning Objectives and Outcomes
- SC.1 Health, Safety, and Welfare in the Built Environment
- SC.2 Professional Practice
- SC.3 Regulatory Context
- SC.4 Technical Knowledge
- SC.5 Design Synthesis
- SC.6 Building Integration
UTA CAPPA Actions
Professor Dr. Ariadna Reyes-Sanchez, Planning

Current Research and Grants
- Confronting Precarity and Environmental Injustice. Lived Stories of Informality and Adaptation in a North Texas Freedmen's Town.
- Mellon Grant for collaborative project, “Climate and Environmental Justice Crossing Latinidades.” How low-income Latinx residents in informal subdivisions across Texas endure and adapt to environmental and climate injustices?

Selected Publications:
UTA CAPPA Actions
Professor Amanda Aman, Architecture

Climate and social/community engagement in the built environment for at risk ecologies: Alaska, Iceland, Greenland

2022 National Best Project Award ACSA: Ephemeral Geographies
UTA CAPPA Actions
Professor Joowon Im, Landscape Architecture

Community-Based Master Plan with Green Infrastructure System for The Bottom District, Dallas
Landscape architecture design studio 4 (Funded by NITCOS & CAPPA-Q堰 Grant)
* Awarded Student National Honor Award from American Society of Landscape Architects

The Bottom District is identified as one of the floodplain communities. The Bottom District was historically more susceptible to environmental disasters such as flooding due to degraded infrastructure and underinvestment from the municipality.

The project team consisted of The Golden S.E.E.D.S. Foundation (TGF), the University of Texas at Arlington (UTA - College of Architecture, Planning and Public Affairs), DesignTec LLC, and the City of Dallas to ensure the inclusion of interdisciplinary and diverse public and private entities.

The project team collaborated to develop a sustainable blue and green neighborhood master plan incorporated with green infrastructure and a cultural trail. The final step for the project is to create a blue-green beautification guideline and establish a small-scale pilot GIS project at one of the selected locations in The Bottom District.

Green Infrastructure, Bottom District, Dallas

GIS Training in Transportation and Environmental Justice for Promoting Student Success in STEAM Education
(Funded by NITC & CTEDDI)

Grant Title: NITC (National Institute for Transportation and Community) Education Grant, CTEDDI (Center for Transportation, Equity, Directions and Decisions)
Title: GIS Training in Transportation and Environmental Justice for Promoting Student Success in STEAM Education
Team members: Dr. Joowon Im (PI), Armita Ameri Sakakini (Co-PI), Adam Keet (Co-PI)
Award: $25,897
Project period: 2021 – 2022

The research team is focusing on developing GIS training and lectures to address issues concerning transportation and environmental justice for high school students who set their career goals within STEAM education, especially concerning urban planning, architecture, and landscape architecture. We also focus on the student population from mid- and lower-income families with diverse backgrounds who are often to be first-generation students in their families.

GIS Training in Transportation & Environmental Justice Promoting Student Success in STEAM Education
UTA CAPPAA Actions

Hawkins Visiting Professor Ursula Emery McClure, Architecture

Coastal Resiliency through Architecture

BSL2, Gulf Coast, MS

COAST CARETAKER, COASTAL LOUISIANA, 2050

GATOR House, False River, LA

Future environmental resiliency in the built environment
UTA CAPP A Actions

Professor Dennis Chiessa, Architecture

Northside Community, Civil Rights Museum

Panther Island – Equitable housing and community development
UTA CAPPA Actions

Professors Chuck MacBride & Brad McCorkle, Architecture

Design Build
Wynn Terrace Project, Arlington TX
2023

addressing the housing crisis
housing inequities
community engagement
community partnership
learning hands-on
learning first-hand
building technology & performance
UTA CAPPLE Actions

Professor Dr. Oswald Jenewein, Architecture

Smart Coast Initiative

Brings communities, faculty, and students together to develop climate adaptation pathways for coastal cities in South Texas.

$2.7 million in university and federal funding.

https://smartcoastinitiative.uta.edu/
UTA CAPPAA Actions

Community Exhibitions

North of the Island Exhibition
Artes De La Rosa
Main St. Ft Worth, TX
2018

Housing Equity and Community Activism
UTA CAPPA Actions
International & Community Exhibitions

Watershed Urbanism

Venice Biennale, Italy
2020

Ft. Worth, TX
Lewisville, TX
Arlington, TX
Dallas, TX
2021/2022
UTA CAPPA Actions

Symposia

UTA CAPPA Actions Symposia
Equity in Planning & Design in Neighborhoods Under Neglect 2021

Richard Rothstein
AK Sandoval Strausz
Teddy Cruz + Fonna Forman
Sara Zewde
UTA CAPP Actions

Symposia

Future Cities/ Livable Futures
Towards a Sustainable Model for Urban Watershed Systems
2019