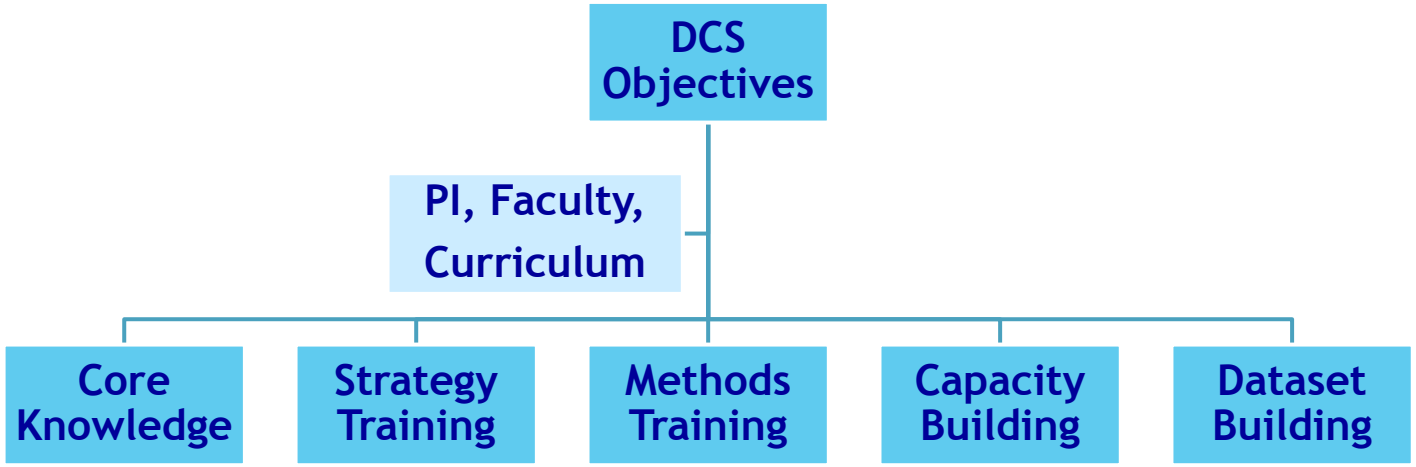
CRC 3rd Annual Meeting: February 28- March1, 2018 Chapel Hill, NC

Institutionalization, Expansion, and Enhancement of Interdisciplinary Minor Disaster and Coastal Studies (DCS)

Principal Investigator: Meherun Laiju, Ph.D.
Associate Professor & Chair
Sociology Department
Tougaloo College

Project Overview – Focus on 3 years:

Disaster & Coastal Studies (DCS) offers a interdisciplinary approach from social science perspective about the nature of natural disasters in the coastal zone; social aspects of catastrophes or disasters; and organizational issues inherent in preparedness, planning, and managing all forms of disasters.



- Education and workforce development – Department of Homeland Security (DHS), Disaster Response and Management Agencies
- Train undergraduate students in interdisciplinary skills and knowledge that are marketable in the fields of disaster and emergency management
- Faculty and students to engage in cross-disciplinary research
- Collaboration with local End User
- Community Outreach initiatives

Faculty

- Professional Development
- Publications & Presentation
- Student Mentoring

Curriculum

- DCS Minor:
- Courses (5-6 per year)
- Research (3 faculty, 11 students)
- Community Outreach
- Engagement – End users

Output

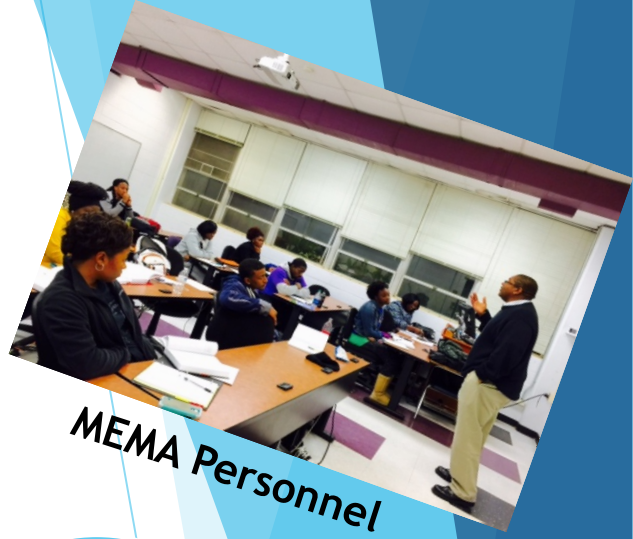
Student

- Internship
- Scholarships (10 -11per year)
- Research
- Conference
- Presentations
- Training (GIS)

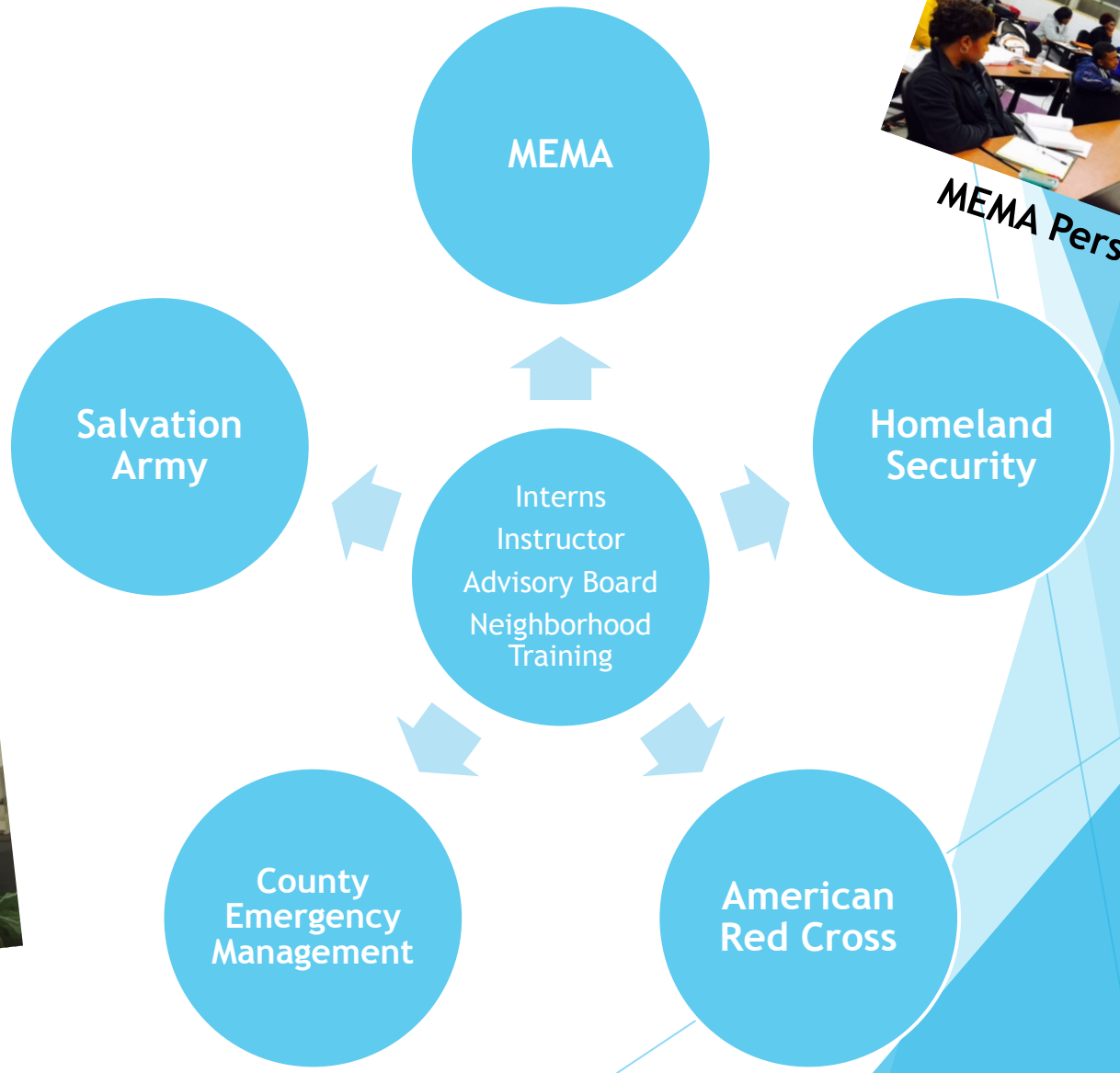
Engagement with Stakeholders

Intern

Intern



MEMA Personnel



Neighborhood Outreach Training Initiative

- Training Overview
- ICS (Incident Command System)
- NIMS (National Incident Management System)
- Preparing for a Disaster (Home Plan/ Emergency Kit)
- Exercise Scenario (Tornado)

Half day training was arranged for Community outreach program on May 6, 2017
by the DCS Program at Woodhaven Neighborhood.

This has been done in collaboration with MEMA----
Training officers- Mr. Jesse Murphree
(Emergency Preparedness Training Officer
Ms. Loretta Thorpe
(Director, Training Bureau, Office of Preparedness

Conduct Survey to assess community needs

Education Work and Accomplishments

Accomplishment	2015 -16	2016-17	2017-18
Total Course Offers	7	6	5
Total Student Serve	62	60+	60
Declare Minor	12	9+	10*
Internship (End – User)	7	7+	-**
Graduate With Minor	2	4-5	3
Research Project/Training	8*	10	11

Research Participants

Student in class GIS Training

*11 students (different discipline) working on two research project (juniors and seniors) and presented at MAS:

Projects includes training:

Geographic Information System (GIS) concepts some emphasis in the STEM areas

Familiarity with national preparedness and resilience literature, develop skills to critically review journal articles
Design survey instrument, administer the survey, interview skills, skills related to statistical software program SPSS ,

Education Work and Accomplishments

- **Papers**
  - ➢ ***DCS graduating senior papers presented at MAS & MCTC conference***
    - ❖ *Irenia Ball- 2017*
      - *Sociodemographic Characteristics and Natural Disaster Preparedness among Mississippi Residence , abstract published in* 81st MAS (ISSN 0076 – 9436, Vol 62 # 1) journal
    - ❖ *Keiara Young- TCMC - 2017*
      - *Hurricanes, Mudslides, and Drought: Considering the Publics Perceptions of the Role Governments Should Play in Providing Aid Using the NORC General Social Survey (GSS)*

MAS 2017

SUMREX: Summer Internship:

Jamille Bryant, 2017
University of Rhode Island

Irenia Ball & Taralyn Rowell
2016, University of Delaware

Education Work and Accomplishments

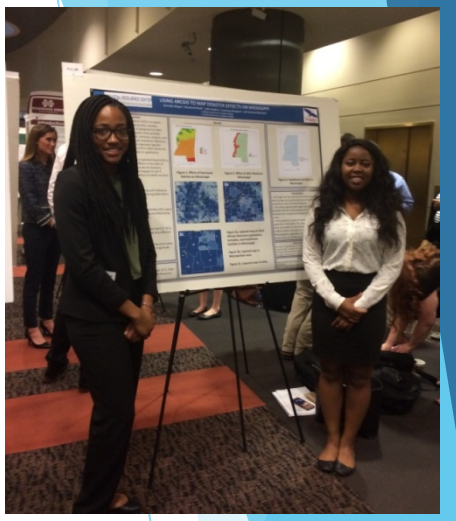
Mississippi Academy of Sciences (MAS) 82nd Annual Meeting

Abstract Published in Mississippi Academy of Sciences (MAS), (ISSN 0076-9436,vol63, 1) & Presented at 82nd Annual Meeting in Hattiesburg February 22, 2018:

Using Arc GIS to Map Disaster Effects on Mississippi
Danielle Mage, Shanterell Reedd, Alex Hopkins, Courtney Mangum;
Mentor - Dr. Santanu Banerjee; Nominated for Millsap Award

Role of Effective Communication in Disaster Preparedness
Jamille Bryant, Courtney Hill, Madison Bibbs, Deja Boler; Mentor - Dr. Shaila Khan

Students at Harris County Emergency Management to collect data



2018 MAS

2018 MAS

Faculty Accomplishments:

- Meherun Laiju- receive d Mellon Fellowship to worked on project - 2016
  Title: *Natural Disaster and Child Trafficking,"*

- Meherun Laiju, received fellowship to participate in the Pardee RAND Faculty Leaders Program in July, 2017 to work on project titled, *A Global Issue: Natural, Manmade Disaster, and Exploitation of Children*. --- manuscript under review by RAND

  - Both of the projects goal is to advance national and global policy initiatives for child trafficking intervention in the context of contingency planning, which ideally should start in the emergency phase of disaster response.

- Meherun Laiju and Santanu Banerjee –Presented at the 10th Anniversary Homeland Defense & Security Education Summit on March 23, 2017 , *Innovative Interdisciplinary Undergraduate Curriculum in Homeland Security at a HBCU*

- Meherun Laiju, developed a course for Brown University's Pre- Baccalaureate program (2018: *Social Impact of Natural and Manmade Disasters*
  - Interdisciplinary course focuses on natural and human-initiated disasters and their impact on human life.
  - Plan to incorporate CRC's partners resources in curriculum
  - University of Rhode Island (URI), Coastal Resilience and Extension Center, a local resource for the course - Pam Rubinoff
- Sponsored GIS training for Faculty & Staff at Tougaloo, February 2018

GIS Training Session

Education Work and Accomplishments 2018- present

Activity	Status
Offer 5 courses (fall & spring)	Complete
Intern Placement to end user setting	** (waiting for 2018 -19 certificate)
Selection of students for research and training	Complete; related work are on track
Select existing courses to modify	Complete
Student/Faculty/Staff GIS certification	February, 9- March 7 (in progress)
Select students for CRC “SUMREX”	
Advisory committee in put- design Certificate Curriculum	Complete & Approved
Guest Speaker (Research Partner)	In Progress (DCS symposium)
Neighborhood Training	April & May (Collaboration MEMA)
DCS Research Symposium	April 13; 9:00 -2:00; TC
Students Graduating with Minor	3, in May 2018

Sustainability/Institutionalization

Interdisciplinary Minor (DCS) Changed into credit bearing Interdisciplinary certificate program:

Approved-incorporated in General Education Curriculum– Fall 2018

Consists of four (4) courses including forty (40) hours of practical internship experiences with local, state or federal agencies or NGO's.

Advisory committee members input, the existing DCS minor courses and courses from different disciplines were used to develop the certificate program

The certificate program will be an option for students who want to join in to workforce immediately after completing their undergraduate degree.

Curriculum incorporate:

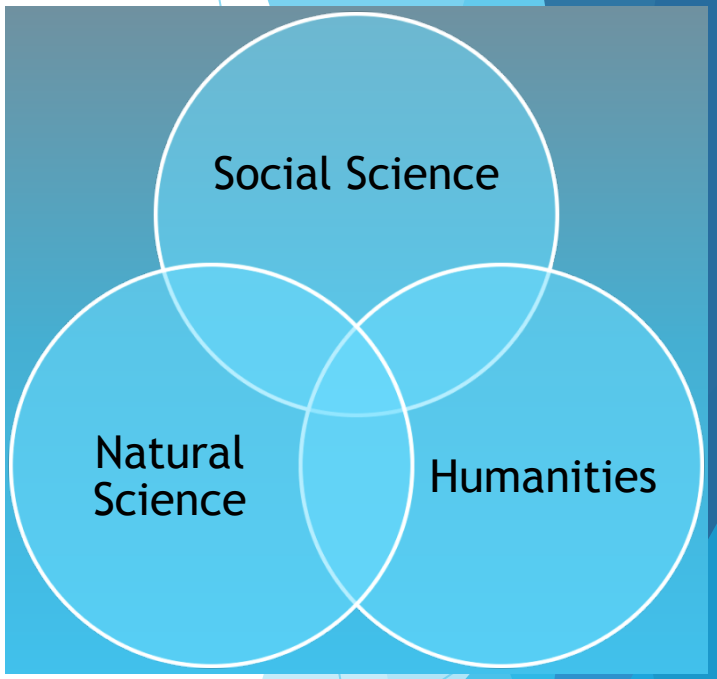
social science, natural science, mass-communication, and planning dimensions of disaster awareness and impact reduction and GIS training

- Opportunity to study preparedness, rescue, and mitigation to address disaster emergency and efforts to develop resiliency among the coastal community in a multidisciplinary context.

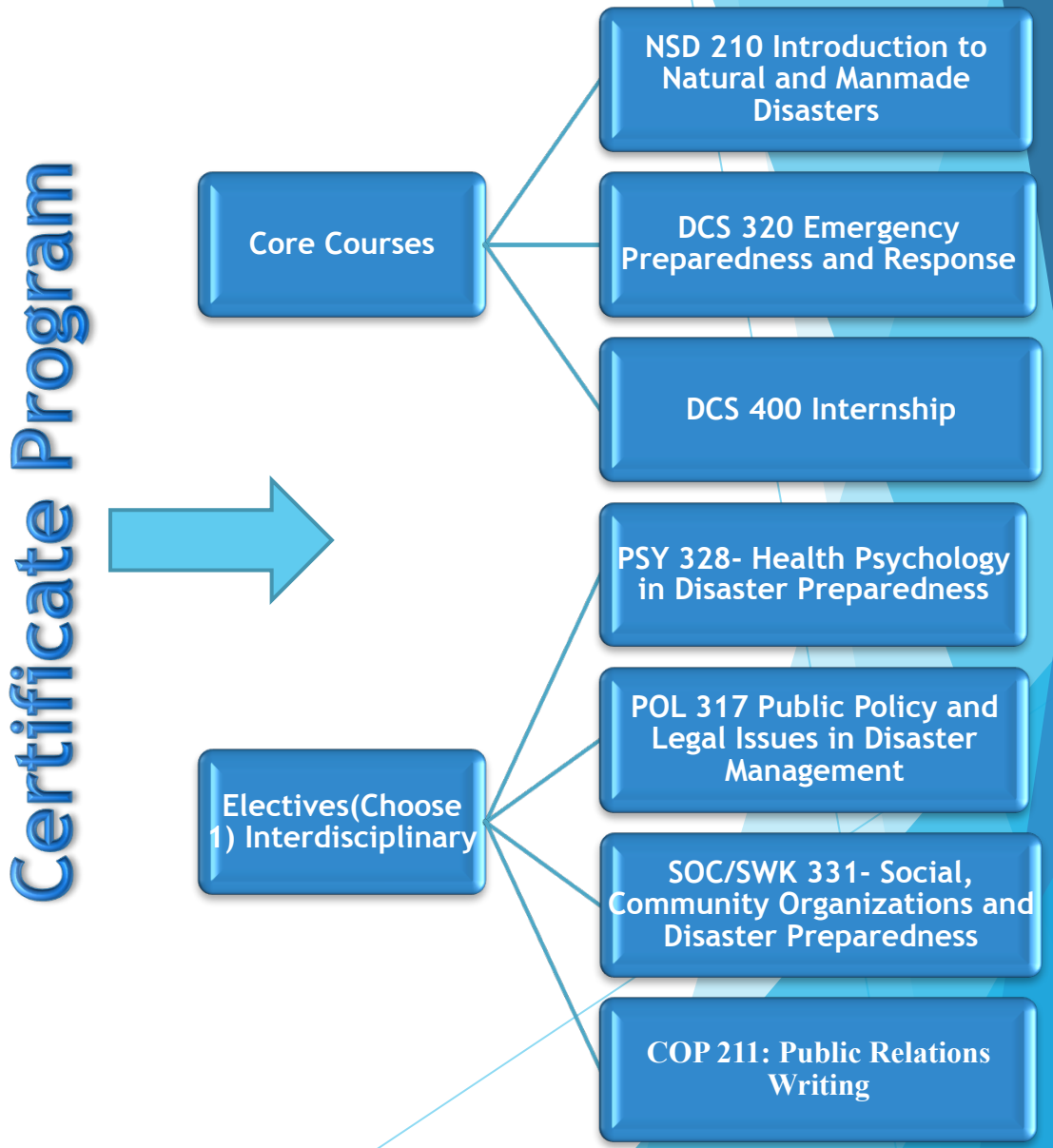
Design:

Strengthen student careers in Homeland Security, emergency management, public policy community and research planning, and prepare students for emergency management related workforce

Collaboration with local End Users & community outreach



Minor to Certificate



Anticipated Project Impact

- Institutionalize Interdisciplinary Certificate- help create collaborations with other institutions and DHS related public & private entities, students have options to join in workforce
- Diversify the future DHS S&T related workforce by training underrepresented minorities, mirroring some of the more vulnerable population impacted by Disaster scenarios
- Local Emergency Management organizations get student interns, serve as instructor, & participate in Advisory committee also Annual Symposium.
- Opportunity for students to be trained in interdisciplinary fields across academic divisions (Natural Science, Social Science, & Humanities). Partner institutions may be able to recruit graduate students for their program with a background in disaster related curriculum.
- Opportunity for students to participate in natural disaster related research and present in conferences
- Allow faculty members in cross-disciplinary research on climate issues
- Enhance Community Preparedness – Neighborhoods training Initiative in collaboration MEMA

Project Highlights

DCS Research Symposium (April 2017)

Students with guest speaker Dr. Robert Whalin, JSU and Dr. Gavin Smith, UNC – Chapel Hill

DCS student Award Winners!

DCS research student with faculty

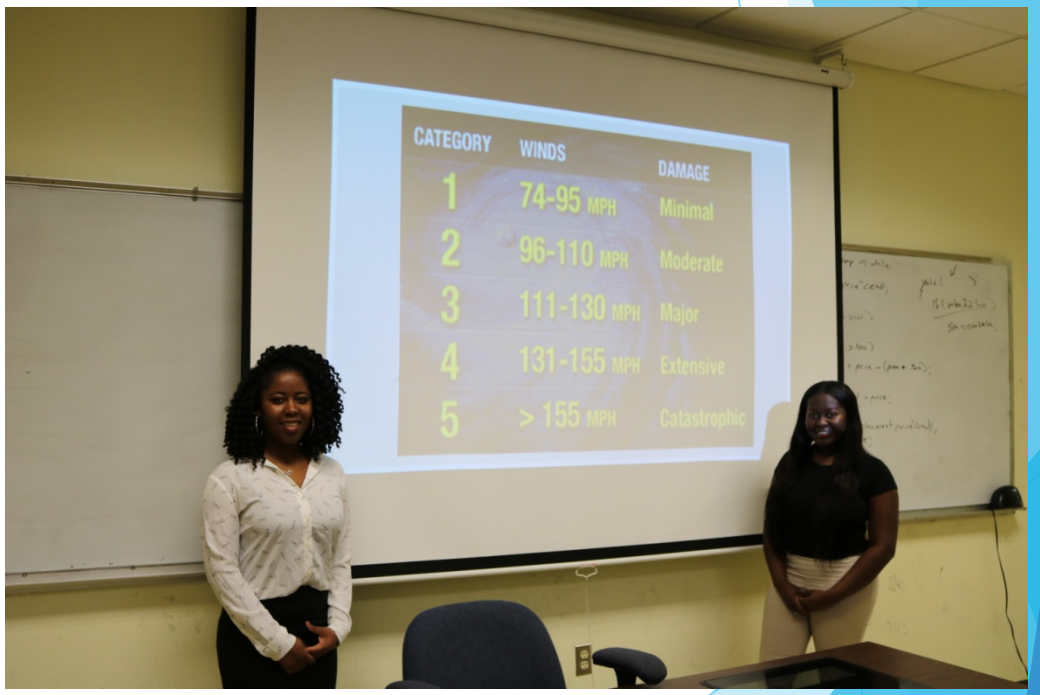
2016

2017

2018

Guest Lecturer: Attorney BP Oil Spill Litigator

Thank You
Questions?



Student presenting in class