

LAIJU, TC
DHS COASTAL RESILIENCE CENTER
EDUCATION PROJECT
YEAR 5 PROGRESS REPORT
July 1, 2019 – June 30, 2020

I. INTRODUCTION

Project Title: Multidisciplinary Certificate: Disaster and Coastal Studies (DCS)

Principal Investigator Name/Institution: MeherunLaiju, Ph.D.; Tougaloo College

Other Partners/Institutions: Internal collaboration with Political Science, Psychology, Mass-Communications, Sociology Department, and Natural Science Division

Short Project Description (“elevator speech”):

Multidisciplinary Certificate: Disaster and Coastal Studies (DCS) is housed in the Sociology and Social Work Department in the Social Sciences Division at Tougaloo College, a Historically Black College (HBCU). Certificate program’s main objective is to diversify the Department of Homeland Security’s (DHS) workforce. To achieve the intended objective DCS certificate curriculum includes: a) training interested students in the field of disaster management for local emergency management agencies and graduate studies; and b) creating neighborhood outreach training programs in collaboration with Mississippi Emergency Management Agency (MEMA) to facilitate DHS resilient community building initiative.

II. PROJECT NARRATIVE:

1. Project overview: The education project, Multidisciplinary Certificate: Disaster Coastal Studies (DCS), addresses the acute underrepresentation of minorities in the Science, Technology, Engineering, and Mathematics areas (STEM). The project’s goal is to diversify the future DHS and S&T related workforce by training underrepresented minorities, mirroring some of the more vulnerable populations impacted by disaster scenarios. The DCS curriculum allows students to develop skills and knowledge and provides an opportunity to be trained in multidisciplinary fields across academic divisions (Humanities, Natural Sciences, & Social Sciences). The curriculum helps create a pipeline of underrepresented minority students with multidisciplinary skills, incorporating a Social Science focus that is marketable in the field of disaster and emergency planning, management, response, and recovery. In addition to coursework that addresses the legal, social, and public health aspects of natural disasters, practical skills—such as student internship with emergency management agencies, Geographical Information System (GIS) training, and FEMA’s Independent Study (IS) training—are incorporated into the coursework. The Project also provides students the opportunity to participate in faculty lead research in the field of community preparedness to enhance community resilience. Students present their research findings in the field of disaster preparedness and recovery at the annual, year-end symposium—attended by various stakeholders including students, faculty, staff, administration, project partners, homeland

security related organizations, and community members. Additionally, the project incorporated a program *Neighborhood Outreach Initiative*, in collaboration with MEMA, and offered opportunities for community leaders and interested citizens to be trained as first responders. The neighborhood training initiative addresses Homeland Security’s Post–Katrina Emergency Reform Act of 2006—building resilient communities as a part of national preparedness.

2. End users: In Year 5, project collaborated with Mississippi Emergency Management Agency (MEMA), American Red Cross, Salvation Army, Mississippi Department of Child Protection Services (MDCPS), and Mississippi State Department of Health (MSDH), Office of Emergency Planning and Response (OEPR). Dr. George Humphrey, Grant Director of MEMA taught the DCS 320 Emergency Management course in Fall 2019. Six students who were in DCS 400 Internship course were placed in MEMA, Red Cross, and Salvation Army. In Year 5, project launched a new collaboration with MSDH. Project hosted a Community Disaster Preparedness Forum on November 14, 2019 and Mr. Wes Holsapple, II, the OEPR Health Care Coalition and Training Coordinator of MSDH, facilitated the forum.



Interns and MEMA Personnel



Instructor Dr. Humphrey



OEPR Personnel Conducting community outreach forum



3. Unanticipated Problems: Year 5 was one of the most challenging years faced by the project due to COVID -19. During Spring Break, the Mississippi Governor issued a Stay Home order. So college resumed and adopted remote learning by using alternative modes of teaching. The faculty teaching the DCS courses had to go through Moodle software training

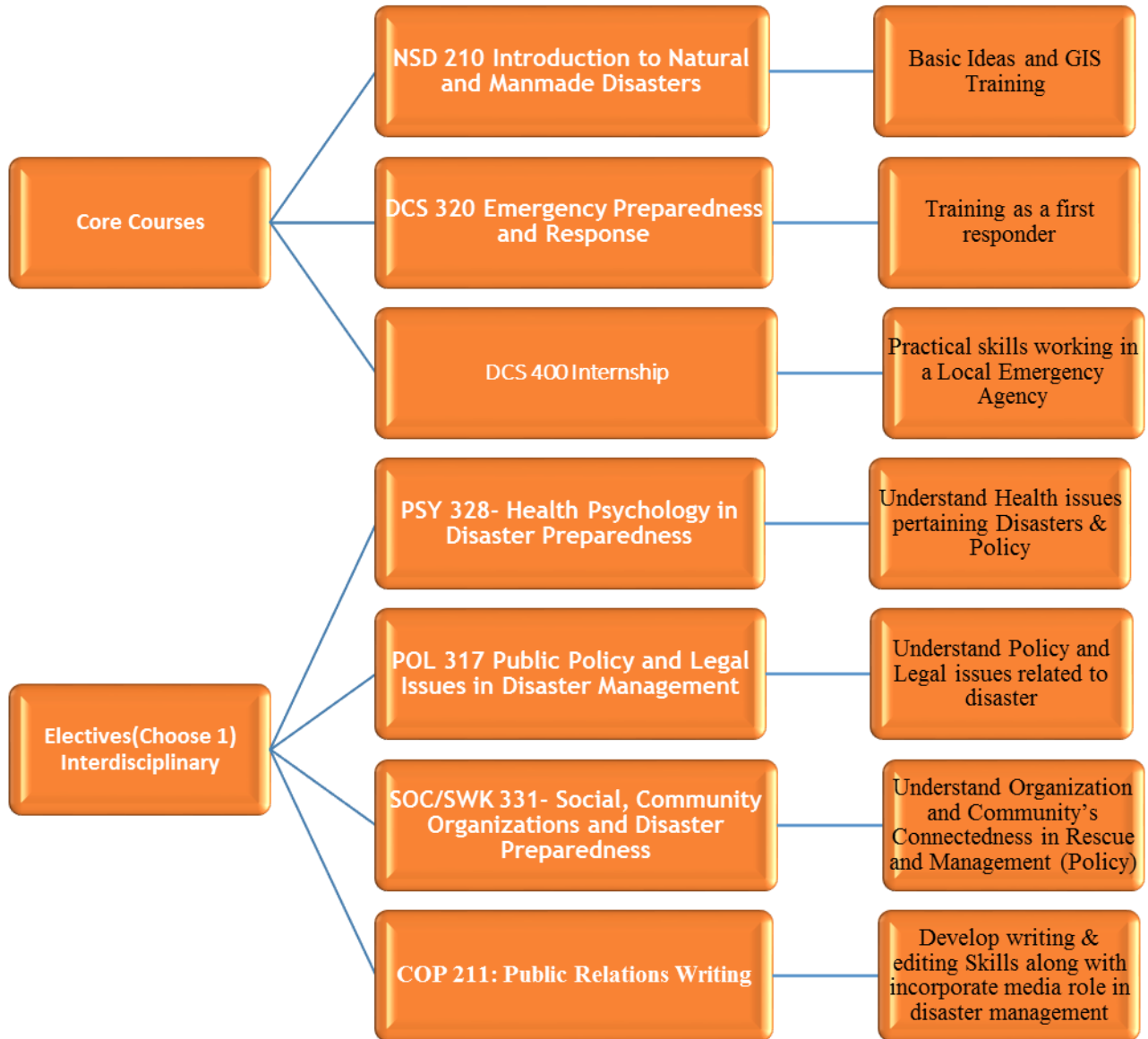
and arranged their course materials (lectures, exams assignments and quizzes) to upload on Moodle to teach the course remotely using Microsoft Team. The DCS symposium, students' participation in conferences, and second community outreach forum all had to be cancelled. Depending on the situation, the project is planned to resume some of the missed activities in Fall 2020. The intern students were not able to complete their field practicum in person, using Microsoft Team the instructor incorporated case studies (scenarios) with the students and did a virtual class.

4. Students and recent graduates: Tougaloo College is a Historically Black undergraduate institution, 99% of the student body is African-American and full-time students. The Certificate program was launched during Year 4. In Year 5, a total of 7 courses were offered: 3 core requirements and 4 electives. There were 82 students who took courses offered by the certificate Program—12 were DCS students and 70 used these courses as an elective count towards degree requirements. This academic year, 5 students graduated with DCS certificate: 2 females and 3 males. Out of the 5 students 2 female and 1 male were accepted in graduate programs (Health Science, Psychology, and Social Work). Between the other two, 1 applied for a local emergency management agency in LA and 1 is undecided.
5. Project Impact: Interdisciplinary Minor Disaster Coastal Studies (DCS) was modified and changed into a multidisciplinary certificate program. In Fall 2018, the project commenced the multidisciplinary certificate Disaster Coastal Studies (DCS) program. The curriculum of the professional certificate incorporated the Interdisciplinary Minor (DCS) courses and courses from Humanities, Natural Sciences, and Social Sciences. The focus of this certificate program is to strengthen student careers in public safety, emergency management, community and research planning, and public-policy making. The goal of the certificate program is to create well-informed and socially-committed professionals able to use holistic, humane, and integrated strategies to mitigate the impact of disasters and support DHS efforts to build more resilient communities. The 12 credit hour multidisciplinary certificate in Disaster and Coastal Studies (DCS) is open to degree seeking students across the institution's majors. The DCS certificate conforms to the mission and vision of Tougaloo College by emphasizing a multidisciplinary and policy-relevant approach to a major 21st century challenge that will also confer competitive career advantages to students. The certificate consists of four courses (12 credit hours) including 40 hours of practical internship experiences with local, state, federal agencies, or NGOs.

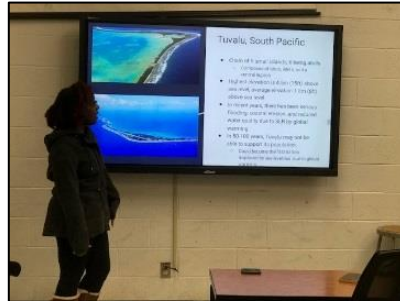
The multidisciplinary certificate curriculum included three DCS minor courses as core requirements and one elective course. The elective courses were adopted from participating departments. These departments modified one of their required electives to be part of the certificate program. The modified elective courses include content, assignments as well as field experts as guest lecturers to address natural disasters and building/strengthening community resilience. This curriculum also exposed students not pursuing the certificate to become familiar with the field of natural disaster, resilience, and skills in GIS. Students who are pursuing the DCS certificate are guided by the instructor to conduct research in the field of disaster resilience, publish, and attend national conferences to present the findings. Also, students who are pursuing the certificate shared

their course related project at the DCS Research Symposium (Cancelled due to COVID - 19).The following are some examples of DCS certificate course content which highlights the incorporation of current literature, advances in the field, and technology:

The certificate program curriculum:



DCS/ NSD 201 Introduction to Natural and Man Made Disaster: Core requirements STEM oriented course offered in Fall by NSD. Course is designed to give a broad overview of natural and man-made disaster and applications of modern tools like GIS to study natural disasters. Interested students gained fundamental knowledge of Natural Disasters and learn about future prospects in this field. Instructor: Dr. Santanu Banerjee; Professor of Physics



DCS 201: Dr. Banerjee and student's presentation

DCS 320 Emergency Preparedness Planning and Response: The course introduces students to the field of Disaster Preparedness. Students are exposed to the terminology, policy, planning, and management issues that arise in preparing for and responding to disasters. Help students understand the role of human organizations in providing assistance to people and communities affected by disasters in the immediate aftermath and for long term recovery. The course examined particular events that occur recently as well as past incidents. Core requirements, taught by Emergency Management Professional.



DCS 320: Class and student presentation

DCS 400 Internship: An educationally-directed practice experience in disaster management agencies with trained site supervisor. Focus placed upon the application of the theoretical knowledge in real-life situation. Prerequisite: must complete the core requirements. Dr. Shaila Khan Psychology Professor is overseeing the student placement.



DCS 400 Interns and Instructor

PSY 328-01: Health Psychology and Disaster Preparedness: This is a three-hour, credit course that focuses on psychological factors (e.g., stress, anxiety, depression, individual differences, or personality characteristics) and environmental events (e.g., natural or man-made disasters) that can negatively affect survivors' mental and physical well-being as well as the relationship between patients and practitioners. Students in the course learned about the role of psychologists in the assessment and treatment of disaster related mental and emotional problems, and the promotion of changes to lifestyle, health habits, and coping practices to optimize recovery from disaster (i.e., dealing with psychosocial aspects of disasters). This is a required elective for Psychology majors and serves as one of choices for DCS electives, Dr. Carmen Lewis Psychology Professor is teaching this course.

POL 317 Public Policy and Legal Issues in Disaster Management: Offer in Spring by Political Science Department. Attorney specialized in the field teaches this course. The course presents concepts and basic descriptive information about the public policy process in the executive and legislative branches of government and actions of the judicial branch in court cases that relate to disaster preparedness. Examine the Federal Emergency Management Agency's legal requirements, responsibilities, laws pertaining to emergency management, and actions based on these laws. Also includes analysis of public policies and understanding the procedures and requirements in emergency management. The course is a required elective requirement for Political Science majors and serves as one of choices for DCS electives. Atty. Dennis Sweet specializes in the field teaches this course



Atty. Sweet



POL 317 Guest Lecturers

SOC/SWK 331 Social, Community Organizations and Disaster Preparedness: The course investigates the nature of complex social and community organizations such as business, industry, and government. Students learned certain basic social concepts and theories and their functions as a framework for bringing about effective community based social action (or community organization as a tool for addressing issues affecting the local community to advocate for social justice). Special attention (topic) is given to community-based disaster preparedness, recovery efforts, and management strategies. Students became familiar with the strategies to build resilient community, community-mindedness and cooperative relationships between disaster victims and recovery organizations. How disasters lead to rapid social change is also be explored. The course is a required elective requirement of Sociology and Social Work majors and serves as one of the choices for DCS electives. Social Worker, Mr. Mario Johnson of MDCPS, specialized in the field teaches this course.



SWK 331 Instructor and Class

6. **Institutionalization:** The certificate program replaced the DCS minor and was executed in Fall 2018 as part of Tougaloo College Curriculum *Career Pathways*. The Multidisciplinary Certificate is housed in the Division of Social Sciences (SSD) and will operate under the umbrella of Career Pathways/ Career Services. The Division Dean in collaboration with the Career Pathways/Career Services Director will be in charge of monitoring the certificate program. The institutionalization process involved collaborating with different disciplines, modifying courses, incorporating elective courses from other disciplines, and designing a self-sustaining Multidisciplinary Certificate Program. To be a self-sustaining program, the twelve credit-hour certification curriculum incorporates the existing elective courses from different disciplines (see Curriculum table). One of core required course, *DCS 201: Intro to Natural Disaster*, was adopted by the Natural Science and co-listed (NSD 201) and offered by the NSD division as an elective requirement. Mississippi Emergency Management Agency (MEMA) personnel currently teach another core requirement *DCS 320: Emergency Preparedness and Response* as adjunct faculty. Academic Affairs agreed to pay the adjunct salary if the enrollment in the course is 8-10students after 2020. The same holds true for the Internship course (*DCS 400*). College rolled out Bachelor of Social Work (BSW) as a degree granting program in Fall 2018 and the DCS certification is included within the BSW degree program as an option of specialization. The DCS certificate is also a part of Tougaloo College's *Career Pathways/Career Services* program. During Year 5, the project took initiatives, such as continuing with the existing end-users, as well as establishing collaboration with FEMA, Mississippi State Department of Health (MSDH), Office of Emergency Planning and Response (OEPR), Mississippi Department of Child Protection Services (MDCPS), and other private agencies which deal with emergency management. The project placed interns; invited personnel to teach classes, as field experts' personnel brought in class as a guest speaker, and invited these agencies to participate in the Tougaloo College job fair to help DCS graduates' recruitment. I am expecting these initiatives will help strengthen to sustain the certificate program beyond 2020.
7. **Interactions with research projects:** Gregory Slusarczyk, Research Mathematician (ERDC), a PhD student in Coastal Engineering (JSU), and Von Anderson, Jackson Emergency City Planner were scheduled to speak at DCS Symposium. Due to COVID -19 the Symposium was cancelled and SUMREX did not matriculate either

III. EDUCATION ACTIVITIES AND TRANSITION MILESTONES

1. **Year 5 Education Activities and Milestone Achievements:**

Education Activities and Milestones: Status as of 6/30/2020

<u>Education Activities</u>	<u>Proposed Completion Date</u>	<u>% Complete</u>	<u>Explanation of why activity/milestone was not completed</u>
Promote DCS certificate program & recruit students	ongoing	100%	
Offer three courses in Fall Semester (NSD 201, DCS 320, & SOC/SWK 331)	08/2019	100%	
Offer four courses in spring semester (PSY 328, COP 211, POL 317, & DCS 400)	01/2020	100%	
Select 6-8 students for course project twice a year	08/2019; 01/2020	100%	
Place 5-6 Interns with end-users	01/2020	100%	
RETALK- invite one guest for symposium	02/2020	0%	COVID-19
<u>Education Milestones</u>			
4-6 DCS Students participation in nationally recognized conferences (Mississippi Academy of Sciences (MAS); Southern Sociological Conference (SSC); Public Relations Association of Mississippi (PRAM); etc.	Feb., Mar., April, 2020	50%	Due to COVID - 19
SUMREX –selection and placement of two students	04/2020	0%	COVID – 19
Execute DCS Symposium each academic year to showcase student activities	04/2020	0%	COVID – 19
Interview conducted by student advisor and/or PI regarding future plans of graduates with DCS certificate	05/2020	100%	

2. Year 5 Transition Activities and Milestone Achievements:

Year 5 Transition Activities and Milestones: Status as of 6/30/2020			
<u>Transition Activity</u>	<u>Proposed Completion Date</u>	<u>% Complete</u>	<u>Explanation of why activity/milestone was not completed</u>
Recruitment for Certificate Program: 10 students	08/2019; 01/2020	100%	
Advise and track the students pursuing the Certificate: 10 to 12 students	05/2019	100%	
<u>Transition Milestone</u>			
SUMREX – Summer Internship and bringing guest Lecturer (DCS Symposium): Two students and one guest speaker	02/2020	0%	COVID -19
DCS certificate graduates placement: 2 to 3 students in graduate program in the field or job related to the field	06/2020	100%	Out of 5, three already are accepted in graduate program. Other 2 interested to join workforce

3. Annual Courses and Enrollments (next page)

Courses Developed and Taught by Tougaloo College through project titled "Multidisciplinary Certificate: Disaster and Coastal Studies(DCS)"						
Course Number	Course Title					
NSD/DCS 201	Course Title: <u>Introduction to Natural & Manmade Disaster</u>	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
Status: Developed (D), Revised (R), and/or Taught (T)		--	R,T	T	R/T	T
Offering: Elective (E), Concentration (C), Minor (M)			M	M	CERT** CORE	CERT C
Number of Students Enrolled		*	10	10	10	10
*offer in fall semester						
DCS 211	Course title:Public Health Issues in Disaster Preparedness	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
Status: Developed (D), Revised (R), and/or Taught (T)		T	T	T,R	R	
Offering: Elective (E), Concentration (C), Minor (M)			M	M		****
Number of Students Enrolled		1**	8	11		
**Schedule to offer in fall; 2016 spring offered as an independent study for a graduating Senior with DCS minor						
DCS 301	Course title:Political & Legal Issues in Disaster Preparedness	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
Status: Developed (D), Revised (R), and/or Taught (T)		T	T	T,R	R	****
Offering: Elective (E), Concentration (C), Minor (M)		M	M	M		
Number of Students Enrolled		14	10	8		
DCS 320	Course Title: Emergency Preparedness Response & Planning	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
Status: Developed (D), Revised (R), and/or Taught (T)		T	R,T	T	T	T
Offering: Elective (E), Concentration (C), Minor (M)		M	M	M	CERT** CORE	CERT C
Number of Students Enrolled		16	5	11	9	10
DCS 314	Course title: Economic Aspects of Disaster	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
Status: Developed (D), Revised (R), and/or Taught (T)			T	T,R	R	****
Offering: Elective (E), Concentration (C), Minor (M)			E	E	-	
Number of Students Enrolled			13	7	-	
DCS 311	Course title:Psychological Dimension of Disaster	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR4</u>	<u>YR 5</u>
Status: Developed (D), Revised (R), and/or Taught (T)		-	-	R	R	****
Offering: Elective (E), Concentration ©, Minor (M)			E	E	-	
Number of Students Enrolled		***			-	
***offer one elective in fall for each academic year						
DCS 400	Course title: Internship	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
Status: Developed (D), Revised ©, and/or Taught (T)		T	T	****	T	T
Offering: Elective (E), Concentration ©, Minor (M)		M	M		CERT** CORE	CERT C
Number of Students Enrolled		7	8		5	6
CERT** (Certificate Program)						

	Course title: COP Public Relations Writing**	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
	Status: Developed (D), Revised ©, and/or Taught (T)			R	-	T
	Offering: Elective (E), Concentration ©, Minor (M)				E	E
	Number of Students Enrolled				-	6
	Course title: SOC/SWK 331 Social, Community Organizations & Disaster Preparedness**	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
	Status: Developed (D), Revised ©, and/or Taught (T)			R	T	T
	Offering: Elective (E), Concentration ©, Minor (M)				E	E
	Number of Students Enrolled				10	18
	Course title: POL 317 Public Policy & Legal Issues in Disaster Management**	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
	Status: Developed (D), Revised ©, and/or Taught (T)				T	T
	Offering: Elective (E), Concentration ©, Minor (M)				E	E
	Number of Students Enrolled				17	17
	Course title: PSY 328 Health Psychology in Disaster Preparedness**	<u>YR 1</u>	<u>YR 2</u>	<u>YR 3</u>	<u>YR 4</u>	<u>YR 5</u>
	Status: Developed (D), Revised ©, and/or Taught (T)				T	T
	Offering: Elective (E), Concentration ©, Minor (M)				E	E
	Number of Students Enrolled				14	15

****: courses have been modified and integrated to regular elective courses with different departments. EX: DCS 301 integrated with POL 317; DCS 311& DCS 211 integrated with PSY 328; DCS 314 & Part of DCS 211, DCS 314 integrated with SWK/SOC 331.

IV. PUBLICATIONS AND METRICS

1. Publications:

Year 2 and 3 Publications and Presentation:

Laiju, M. (2016) *Natural Disaster and Child Trafficking*, Mellon Fellowship

Ball, I & **Laiju, M.** (2017) Socio- demographic Characteristics and Natural Disaster Preparedness among Mississippi Residence, abstract published in *The journal of Mississippi Academy of Sciences* (ISSN 0076-9436) April edition.

Laiju, M. (2017) *A Global Issue: Natural, Manmade Disaster, and Exploitation of Children*, Pardee RAND Faculty Leaders Fellowship, manuscript under review.

Laiju, M.& Banerjee, S. (2017) *Innovative Interdisciplinary Undergraduate Curriculum in Homeland Security at a HBCU*, Presented at the 10th Anniversary Homeland Defense & Security Education Summit on March 23, 2017

Mage, D. Reed, S. Hokins, A. Mangum, C. & Banerjee, S. (2018) Using Arc GIS to Map Disaster Effects on Mississippi, abstract published in *The journal of Mississippi Academy of Sciences* (ISSN 0076-9436) vol 63, 1 February edition

Bryant, J. Hill, C. Bibbs, M. Boler, D. & Khan, S. (2018) *Role of Effective Communication in Disaster Preparedness*, abstract published in *The journal of Mississippi Academy of Sciences* (ISSN 0076-9436) vol 63, 1 February edition

Year 4 Publications:

Long, J., Rose, S., Jwainat, A. & Hunter, F. (2019), Tougaloo Community Preparedness for Homeowners, abstract published in *Mississippi Academy of Sciences (MAS)* ISSN 0076 – 9436, Vol 64 # 1

Jones, T. Robinson, S. Boler, D.& Hunter, F. (2019) Disaster Preparedness: How Prepared Are They? An Assessment of Renters in Tougaloo Mississippi, abstract published in *Mississippi Academy of Sciences (MAS)* ISSN 0076 – 9436, Vol 64 # 1
Kinkaid, D., Ze'ronte, B.Sneed, H., & Banerjee, S., (2019), *Using GIS to Study*

Disproportionate Disaster Impact on Vulnerable Mississippi Population, abstract published in *Mississippi Academy of Sciences (MAS)* ISSN 0076 – 9436, Vol 64 # 1, & Presented at 83rd Annual Meeting in Hattiesburg, MS on February 21, 2019

Laiju, M. (2019), *A Framework: Address Vulnerability of Children and Current Policy of Disaster*, abstract published in *Mississippi Academy of Sciences (MAS)* ISSN 0076 – 9436, Vol 64 # 1, & presented at 83rd Annual Meeting in Hattiesburg, MS on February 21, 2019

Laiju, M. (2019) *Career Pathway: Multidisciplinary Undergraduate Curriculum in Homeland Security's Coastal Resilience at a HBCU*. Abstract published in *Southern Sociological Society (SSS) Journal* and presented at SSS Conference on April 11, 2019, at Atlanta, GA.

Presentation:

Laiju, M. & Hunter, F. (2018), *Transforming the Curriculum: Adding Disaster Management and Coastal Infrastructure Management to the Curriculum*, abstract accepted and presented at the Historical Black Colleges & Universities (HBCU) Faculty Development Network Conference in Jackson, Mississippi, November 2, 2018

Senior Paper:

Jwainat, A. (2019), senior paper Knowledge and Attitudes Regarding Disaster/ Emergency Preparedness

Porter, J. (2019), New Orleans Residents' Awareness of Disaster Preparedness

Year 5 Publications:

Presentation and Senior Paper:

Thomas, C&Laiju, M (2020)*Natura Disaster Preparedness Among Undergraduate Students In Jackson, Mississippi*, abstract published in 84th MAS (ISSN 0076 – 9436, Vol 65 # 1) journal and presented the Paper at MAS conference on February 20, 2020. (Ms. Thomas's Senior Paper)

Hill, N., Randle, D.iMaya Randle, & Khan, S. (2020) *Assessment of Psychological Impact of Coastal Disaster*, abstract published in 84th MAS (ISSN 0076 – 9436, Vol 65 # 1) journal and presented the Paper at MAS conference on February 20, 2020

Tashana Irving, Desiree-Gift Mills, Jacory Clayton, Meherun Laiju, Santanu Banerjee, *Using GIS to Study Recent Past, Present and Potential Major Disaster Patterns' Impact on the Mississippi Demography*, supposed to be presented at the 8th International Conference on Flood Management in Iowa City, Iowa (postponed until August 2021 due to COVID-19)

Randle, D& Khan, S. (2020) *Time Management and Academic Adjustment among First Year African American Students*, abstract published in 84th MAS (ISSN 0076 – 9436, Vol 65 # 1) journal and presented the Paper at MAS conference on February 20, 2020 (Ms. Randle's Senior Paper)



DCS Students, Di'Maya Randle (Psychology) Presenting at MAS also selected for Millsaps Undergraduate Scholar Program



DCS Students, Sociology Major Courtney Thomas presenting Senior Paper at MAS



DCS Students Psychology Major Presenting at MAS



DCS Research Interns with Instructors

2. Performance Metrics

Laiju: Performance Metrics:

<u>Metric</u>	<u>Year 1</u> (1/1/16 – 6/30/16)	<u>Year 2</u> (7/1/16 – 6/30/17)	<u>Year 3</u> (7/1/17 – 6/30/18)	<u>Year 4</u> (7/1/18 – 6/30/19)	<u>Year 5</u> (7/1/19 – 6/30/20)
HS-related internships (number)	7	8	0	5	4
Undergraduates provided tuition/fee support (number)					
Undergraduate students provided stipends (number)	15	17	20	24	6
Graduate students provided tuition/fee support (number)	NA	NA	NA	NA	NA
Graduate students provided stipends (number)	NA	NA	NA	NA	NA
Undergraduates who received HS-related degrees (number)	3	5	4	5	5
Graduate students who received HS-related degrees (number)	NA	NA	NA	NA	NA
Certificates awarded (number)	NA	NA	NA	5	5
Graduates who obtained HS-related employment (number)			0	1	0
Lectures/presentations/seminars at Center partners (number)	1	1	1	1	0
DHS MSI Summer Research Teams hosted (number)	0	0	0	0	0
Journal articles submitted (number)	0	0	0	0	0
Journal articles published (number) ABSTRACT	0	0	3	5	2
Conference presentations made (number)	1	4	6	6	2
Other presentations, interviews, etc. (number)	10	12	14	15	4
Trademarks/copyrights filed (number)	0	0	0	0	0
Requests for assistance/advice from DHS agencies (number)	2	1	1	1	2
Requests for assistance/advice from other agencies or governments (number)	5	2	2	3	3
Dollar amount of external funding	\$12,000	--	\$8,000	-	-
Total milestones for reporting period (number)	7	7	7	7	6
Accomplished fully (number)	4	5	6	6	2
Accomplished partially (number)	3	1	1	-	1
Not accomplished (number)	-	1	-	1	3