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Southern Miss Gulf Scholars

Fall 8-21-2023

## SUS 315 Southern Miss Gulf Scholars Program Module

Southern Miss Gulf Scholars Program University of Southern Mississippi

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Southern Miss Gulf Scholars Program, "SUS 315 Southern Miss Gulf Scholars Program Module" (2023). *Southern Miss Gulf Scholars*. 3. https://aquila.usm.edu/southernmissgulfscholars/3

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# **SUS 315: Field Methods**

### **Module Curriculum Template**

Module Title: Urban Streams (Fresh Surface Water)

Module Length (in hours): 6-9 hours over several sessions

Course: SUS 315: Field Methods

Subject Area(s): Sustainability

Description of Module: Urban Freshwater Resources are historically and culturally significant, but they have transitioned to urban water management systems with a disconnect to the waterways. Some still swim and fish in urban waterways. Some still have connections to the urban waterways, but many have lost that connection. How has your urban waterway changed and how is it managed? Can that change or would it have an impact if it did? What ways can we monitor or improve this waterway?

Module Learning Outcomes(s):

LO 1. Develop knowledge of the Gulf of Mexico and its coastal zone in order to identify potential leverage points for creating a more livable, equitable, resilient, and joyful Gulf Region

LO 3. Integrate perspectives and approaches from the humanities, engineering, social and natural sciences to develop interdisciplinary responses to complex socio-environmental challenges

LO 4. Practice civic responsibility and ethical reasoning in problem-solving and research

LO 5. Conceptualize, develop, research, and implement innovative responses to major Gulf region challenges, grounded in respect for community knowledge and expertise

Plan to make proposal project for first half of class leading into the sustainability capstone praxis.

Have students vote on best one to submit for possible implementation

Assessment Dideprint [angli lessons with module learning goal(s)].				
Lesson	Objectives	Cognitive Level	Activities	Assessment
**Introductory Lesson (personalize, localize, connect to global challenges)				
Read Marker at	LO 1.		Reading and	Oral/ peer
Bear Point and			Thinking	assessment

### Assessment Blueprint [align lessons with module learning goal(s)]:

				,,
discuss the				
importance of				
fresh water				
along the coast				
Discuss the	LO 3.		Hypothesize	Oral/ peer
switch from				assessment
surface water to				
municipal water				
and why				
Identification of	LO 1.		Looking at Maps	Participation
target freshwater	LO 4.		Looming an maps	1 with parton
stream (Bear	20 11			
Point)				
Analysis of local	LO 1.		Writing on Paper	Participation and
maps to	LO 1. LO 3.		Maps to figure	graded map
determine the	LO 3. LO 4.		out where the	graueu map
flow of the	LU 4.			
			stream is.	
stream from			Maybe historic	
headwaters to			maps	
delta				
**Inquiry Project	Lesson (personalize	e via values, localize	e relevance, globaliz	ze need)
<b>XX71</b> 1	100	l l	D:	
What is the	LO 3.		Dissect the	Guided research
condition of the	LO 4.		stream into	planning
freshwater			segments and	
stream? Are			figure out what	
segments			to monitor or	
different?			test	
What could you	LO 3.		Brainstorming	Participation
do to change or	LO 4.			
improve it?				
How is the	LO 3.		Expand on the	Graded short
waterway's	LO 4.		human aspect of	writing
cultural			the history of the	U
landscape/			stream and	
cultural			modern	
significance			manipulation of	
change over the			the stream	
course of the			and bu culli	
flow of the				
river?				
Are there other	LO 1.		Short writing	Graded short
freshwater	LO 1. LO 4.		Short writing exercise to think	
	LU 4.			writing
streams in the			beyond the local	
area that are				
treated				

differently? To				
what scale is this				
stream				
impacting the				
region.				
**Communicate R	Results Lesson			1
Take photos	LO 4.		Photos and field	Completion
along the			notes	
waterway to				
show the				
different				
segments				
Create a map or	LO 3.		Use GIS story	Graded map
visualization that	LO 4.		maps to tell the	
helps show the	LO 5.		story of the	
importance of			stream now and	
the stream			in the past	
Write a project	LO 1.		Pull together a	Graded paper
proposal for	LO 3.		plan to do	
improving the	LO 5.		something	
waterway or			concerning the	
bringing back			stream	
cultural			(monitoring,	
significance.			reengineering,	
			cleaning, etc.)	
**Critical reflection should be integrated throughout every lesson in the module.				

Introductory	Course: SUS 315	Date:		
Lesson				
<b>GSP Learning Outcomes</b> 1. Develop knowledge of the Gulf of Mexico and its coastal zone in order to identify potential leverage points for creating a more livable, equitable, resilient, and joyful Gulf Region; 3. Integrate perspectives and approaches from the humanities, engineering, social and natural sciences to develop interdisciplinary responses to complex socio-environmental challenges; 4. Practice civic responsibility and ethical reasoning in problem-solving and research; 5. Conceptualize, develop, research, and implement innovative responses to major Gulf region challenges, grounded in respect for community knowledge and expertise				
Location: o In class	<ul> <li>GSP Framework Guidelines</li> <li>♦ Clear learning goals</li> <li>♦ Framing of inquiry question or problem as interdisciplinary</li> <li>♦ Relevance of inquiry personally &amp; Professionally</li> </ul>	Strategies/Activities         ◊       Readings         ◊       Digital Media         ◊       Lecture         ◊       Visual Mapping         ◊       Think/Pair/Share		

	I Contraction of the second	
Introduction	<ul> <li>Relevance of inquiry locally &amp; globally</li> <li>Collaborate</li> <li>Communicate results, includir broader impact</li> <li>Critical reflection of experience</li> </ul>	Angle
		Assessment for Learning
Action		<ul> <li>Observations</li> <li>Conversations</li> <li>Anecdotal Notes</li> <li>Work Sample</li> <li>Class Check-Ins/Quizzes</li> <li>Checklist</li> <li>Diagnostics</li> <li>Other</li> <li>Assessment as Learning</li> </ul>
Consolidation		<ul> <li>Self-assessment</li> <li>Peer-assessment</li> <li>Presentation</li> <li>Visual Mapping</li> <li>Collaboration</li> <li>Class Check-Ins/Quizzes</li> <li>Homework</li> <li>Other</li> </ul>
		Assessment of Learning
Reflection and Next Step	S	<ul> <li>Test</li> <li>Quiz</li> <li>Presentation</li> <li>Project Portfolio</li> <li>Critical Reflection</li> </ul>
Activities that worked	Topics to be Revisited	<ul> <li>♦ Journal</li> </ul>
		Southai ♦ Essay
		♦ Rubrics
		♦ Other

Inquiry	Course:	Date:	
<b>GSP Learning Outcomes</b> 1. Develop knowledge of the Gulf of Mexico and its coastal zone in order to identify potential leverage points for creating a more livable, equitable, resilient, and joyful Gulf Region; 2. Employ the intercultural knowledge, mindset, and skills through active involvement with diverse Gulf communities; 3. Integrate perspectives and approaches from the humanities, engineering, social and natural sciences to develop interdisciplinary responses to complex socio-environmental challenges; 4. Practice civic responsibility and ethical reasoning in problem-solving and research; 5. Conceptualize, develop, research, and implement innovative responses to major Gulf region challenges, grounded in respect for community knowledge and expertise			
Location: o In class o Out-of-class location 	GSP Framework Guidelines     Strategies/Activities       In class <ul> <li>Clear learning goals</li> <li>Framing of inquiry question or methlam on intradiciplinemy</li> <li>Lecture</li> </ul> <ul> <li>Activities</li> <li>Activities</li> <li>Activities</li> <li>Activities</li> </ul>		

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Introduction	<ul> <li>Relevance of inquiry locally &amp; globally</li> <li>Collaborate</li> <li>Communicate results, including broader impact</li> <li>Critical reflection of experience</li> </ul>	Service Learning     Group Work     Discussion Questions     Photovoice
		<ul> <li>DEAL Approach to Critical Reflection</li> <li>Other</li> </ul> Assessment for Learning
Action		<ul> <li>Observations</li> <li>Conversations</li> <li>Anecdotal Notes</li> <li>Work Sample</li> <li>Class Check-Ins/Quizzes</li> <li>Checklist</li> <li>Diagnostics</li> <li>Other</li> </ul> Assessment as Learning
Consolidation		<ul> <li>Self-assessment</li> <li>Peer-assessment</li> <li>Presentation</li> <li>Visual Mapping</li> <li>Collaboration</li> <li>Class Check-Ins/Quizzes</li> <li>Homework</li> <li>Other</li> </ul>
		Assessment of Learning
Reflection and Next Step	S	<ul> <li>Test</li> <li>Quiz</li> <li>Presentation</li> <li>Project Portfolio</li> <li>Critical Reflection</li> </ul>
Activities that worked	Topics to be Revisited	<ul> <li>Journal</li> <li>Essay</li> <li>Rubrics</li> <li>Other</li> </ul>

Communication	Course:	Date:	
<b>GSP Learning Outcomes</b> 1. Develop knowledge of the Gulf of Mexico and its coastal zone in order to identify potential leverage points for creating a more livable, equitable, resilient, and joyful Gulf Region; 2. Employ the intercultural knowledge, mindset, and skills through active involvement with diverse Gulf communities; 3. Integrate perspectives and approaches from the humanities, engineering, social and natural sciences to develop interdisciplinary responses to complex socio-environmental challenges; 4. Practice civic responsibility and ethical reasoning in problem-solving and research; 5. Conceptualize, develop, research, and implement innovative responses to major Gulf region challenges, grounded in respect for community knowledge and expertise			
Location: O In class O Out-of-class location 	<ul> <li>GSP Framework Guidelines</li> <li>♦ Clear learning goals</li> <li>♦ Framing of inquiry question or problem as interdisciplinary</li> <li>♦ Relevance of inquiry personally &amp; professionally</li> </ul>	Strategies/Activities◊Readings◊Digital Media◊Lecture◊Visual Mapping◊Think/Pair/Share	

Introduction	<ul> <li>Relevance of inquiry loc globally</li> <li>Communicate results, in broader impact</li> <li>Collaborate</li> <li>Critical reflection of exp</li> </ul>	cluding
		Reflection
		◊ Other
		Assessment for Learning
		♦ Observations
Action		◊ Conversations
		Anecdotal Notes
		Work Sample
		<ul> <li>Class Check-Ins/Quizzes</li> </ul>
		Checklist     Discussed
		◊ Diagnostics
		♦ Other
		Assessment as Learning
Consolidation		◊ Self-assessment
		Peer-assessment
		Presentation
		<ul> <li>◊ Visual Mapping</li> <li>◊ Collaboration</li> </ul>
		<ul> <li>♦ Collaboration</li> <li>♦ Class Check-Ins/Quizzes</li> </ul>
		<ul> <li>Homework</li> </ul>
		♦ Other
		Assessment of Learning
		♦ Test
Reflection and Next Steps		♦ Quiz
		♦ Presentation
		Project Portfolio
	Tanta ta ba Da tata t	Critical Reflection
Activities that worked	Topics to be Revisited	⇒ Journal
		◊ Essay
		◊ Rubrics
1	1	◊ Other