

Instructor: Dr. Hala Nassar
Office: 3-104 Lee Hall
Phone: 864-656-2499
E-mail: hnassar@clemson.edu

PROJECT: Dr MLK WAY INVENTORY and ANALYSIS PHASE

In this important phase of the studio, you will work in groups or individually on site inventory and analysis examining natural, cultural, historic and visual characteristics of the site.

Inventory/Analysis Layer Requirements	Team Members
1- Land Use <i>City and Site Scales</i>	
2- Open Space <i>City and Site scale & Figure Ground</i>	
3- Behavior Mapping & Cognitive Study (Kevin Lynch) <i>City and Site scale</i>	2
4- Pedestrian circulation <i>neighborhood scale</i> & Vehicular circulation <i>City and Site scales</i> <i>Traffic count</i>	
5- Vegetation <i>City and Site scales</i> & Wildlife <i>City and Site scales</i>	
6- Climate – Microclimate- <i>City and Site scales</i> & Aspect <i>Site scale</i>	
7- History of Seneca-development and future planning for growth & Regional context	
8- History, culture, heritage of African Americans, Seneca, Oconee County, Dr. Martin Luther King	
9- Topography <i>site + neighborhood scale</i> Slope <i>site + neighborhood scale</i> Hydrology <i>site + city scale</i> Water sheds	2
10- Demographics, development and future growth <i>City and Site Scales</i>	
11- Visual Analysis <i>site + neighborhood scale</i> & Noise <i>site + neighborhood scale</i>	

Please prepare a digital poster presentation representing the results of your assigned research category for inventory and analysis. Select as many images as necessary to illustrate the project. Write a 2 page description explaining your inventory and analysis with 11 point font, 1.5 line spacing, NY Times Roman

Your presentation is not limited in terms of the number of digital image/compositions, and should be developed as posters in Powerpoint, Photoshop, Illustrator, Word, or equal. Upload your work in Canvas as per due date. Work should exhibit high craft and an aesthetic sensibility, as well as, reasoned thinking and logical conclusions.

Inventory data analysis will utilize SWOT as a criterion for presenting insights and making final conclusions.

Your work will be assessed according to completeness of data, quality of illustration, and clarity of explanation.

Fall 2022
Clemson University
Landscape Architecture
College of Architecture, Arts and Humanities

LARC 2510
Credit hours: 6
Time: 1:30-5:30PM MW & 1:30-4:30PM F
Room: Lee III

Instructors: Prof. Hala Nassar, Ph.D.
Office: 3-104 Lee Hall
Phone: 864-656-2499
E-mail: hnassar@clemson.edu

Sustainability and Resilience for an Island Nation. Campus for Training and Innovation in Eleuthera, The Bahamas

Site Inventory & Analysis

In this phase of our studio, you will work individually/in groups to research and report on your chosen layer of inventory and analysis focusing on our site; Centre for Training and Innovation in Eleuthera, the Bahamas. You will do an analysis of typical landscape conditions and systems and present your findings in a board format using the designed template. Work produced in this phase will need to be made available to all studio members. Studio collective research and analysis will assist in reaching a comprehensive understanding of CTI campus and its context.

In this phase, students will be making maps that describe site conditions, inventory site specific elements as per assigned topic. Students will examine and utilize online sources including but not limited to Google Earth Pro, Satellite Pro, Esri, GIS, Open Topography, Open Street Map, Flood maps and Google Scholar.

In your presentation, make sure you address all points listed and any additional ones as per discussion with the professor. In this phase, we are interested in the information and what it means for CTI, Eleuthera, the Bahamas. Please describe what is unique about your topic and define its most pressing problems and potential responses to those problems evidenced in your analysis. Your exercise should conclude with a SWOT analysis. Your presentation should include as many maps, graphs, diagrams, photos, and drawings as necessary to enrich and explain your conclusions.

Make sure your graphics are of high quality and your written component is informative. Your grade in this phase will reflect thoroughness and completion of the above requirement, depth of data presented, analytical insights, graphic quality of your boards and your verbal presentation.

Please choose from the layers of inventory and analysis below:

Centre for Training & Innovation

Land Use—land use at two scales; campus & adjacencies, transect of island at CTI location, land use typologies, vacant land, edge analysis and adjacencies, property boundary, site programming and conditions. Timeline past and present. Comprehensive master plan documents and future land uses.

Vegetation— green space, open space, vegetation cover, trees, vegetation typologies, analysis, visual character, native vegetation species, native vs invasive vegetation, figure ground, hardiness zone/s, and the Leon Levey Nature Reserve case study.

Wildlife—wildlife habitat, migratory birds, patch and corridor analysis, marine species, marine habitat and ecology, coral reef ecology, endangered species, water edge vegetation habitat for wildlife, wildlife protection programs.

Topography and hydrology—general elevation, topographic profile of terrain sections, sea-level rise impact mapping on campus (flood maps), stormwater general information and maps, hydrology, climate change and effects of hurricane on campus.

Environmental factors—soils, geology, pollution sources, noise analysis, air quality, water sources and quality, water management, solid waste management, recycling, environmental protection programs and efforts, Sustainability life style and initiative, renewable energy sources.

Climate and Micro-climate—General climate, Heat island effect, mitigation strategies and technologies for heat island effect, heat map of microclimate, solar path for campus,

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Instructors: Prof. Hala Nassar, Ph.D.
Office: 3-104 Lee Hall
Phone: 864-656-2499
E-mail: hnassar@clemson.edu

T. Assistant: Sara Eslamzadeh, PhD student
Office: Lee Hall 2-318
Phone: (806) 642-1277
E-mail: seslamz@clemson.edu

Sustainability and Resilience for an Island Nation. Tarpum Bay Waterfront Development, Eleuthera, The Bahamas

Site Inventory & Analysis

In this phase of our studio, you will work individually/in groups to research and report on your chosen layer of inventory and analysis focusing on our site for Tarpum Bay Waterfront in Eleuthera, the Bahamas. You will do an analysis of typical landscape conditions and systems and present your findings in a board format using the designed template. Work produced in this phase will need to be made available to all studio members. Studio collective research and analysis will assist in reaching a comprehensive understanding of Tarpum Bay and its context.

In this phase, students will be making maps that describe site conditions, inventory site specific elements as per assigned topic. Students will examine and utilize online sources including but not limited to Google Earth Pro, Satellite Pro, Esri, GIS, Open Topography, Open Street Map, Flood maps and Google Scholar.

In your presentation, make sure you address all points listed and any additional ones as per discussion with the professor. In this phase, we are interested in the information and what it means. Please describe what is unique about your topic and define its most pressing problems and potential responses to those problems evidenced in your analysis. Your exercise should conclude with a SWOT analysis. Your presentation should include as many maps, graphs, diagrams, photos, and drawings as necessary to enrich and explain your conclusions.

Make sure your graphics are of high quality and your written component is informative. Your grade in this phase will reflect thoroughness and completion of the above requirement, depth of data presented, analytical insights, graphic quality of your boards and your verbal presentation.

Please choose from the layers of inventory and analysis below:

Trapum Bay Water Front Development Masterplan

Land Use—land use at two scales; waterfront & adjacencies, transect of island at Tarpum Bay waterfront, land use typologies, vacant land, water edge analysis, conditions. Timeline past and present. Comprehensive master plan documents and future land uses. Tarpum Bay hurricane building code.

Vegetation— green space, vegetation cover, trees, vegetation typologies analysis, visual character, native vegetation species, native vs invasive vegetation, figure ground, hardiness zone/s, and the Leon Levey Nature Reserve case study.

Wildlife—wildlife habitat, migratory birds, patch and corridor analysis, marine species, marine habitat and ecology, coral reef ecology, endangered species, water edge vegetation habitat for wildlife, wildlife protection programs.

Topography and hydrology—general elevation, topographic profile of terrain sections, sea-level rise impact mapping on campus (flood maps), stormwater general information and maps, hydrology, climate change and effects of hurricane on campus.

Environmental factors—soils, geology, pollution sources, noise analysis, air quality, water sources and quality, water management, solid waste management, recycling, environmental protection programs and efforts, Sustainability lifestyle and initiative, renewable energy sources.

Climate and Micro-climate—General climate, Heat Island effect, mitigation strategies and technologies for heat island effect, heat map of microclimate, solar path Tarpum Bay.

Circulation and Transportation—Road hierarchy, road conditions, traffic counts, traffic patterns, traffic intersection analysis, vehicular circulations, pedestrian circulations, points of intersection/conflict, water edge, boats and docking at Tarpum Bay, boat types

Open Space & Tourism— Open space typologies, characterization of open space, visual character of open space, views, vistas, water edge, figure ground, tourist demographics, destinations, local sites and points of interest, landmarks, historic structures, sacred structures, heritage districts.