

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



Research & Cultural Analysis

In this phase of our studio, you will work individually/in groups to research and report on your chosen layer of analysis focusing on our project in Eleuthera, the Bahamas. You will be asked to do an analysis of typical landscape conditions and systems, and to present your findings in a board format using a designed template. Since this is an in-depth research and analysis, and students will work on different topics, we need to make final work available for sharing with all studio members. Therefore, the studio collective research and analysis effort will assist in reaching a comprehensive understanding of our project site and its context.

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 all available governmental websites. In addition, students will conduct a comprehensive search of Google Scholar to examine academic

and scientific research papers and publication that address topics of interest related to the chosen layer of analysis.

In your presentation, make sure you address all points listed and any additional ones as per your discussion with the professor. Since students are conducting different research, consulting with the professor regarding the scope of work is a critical part of the process. 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 research. Your research should lead to an analytical summary or takeaways in the conclusion section. Your presentations should include as many maps, graphs, diagrams, photos, and drawings as necessary to enrich and explain your findings and conclusions.

In your presentation, make sure your graphics are of high quality and your written component is informative. Your grade in this project 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 research and analysis below:

Eleuthera Research and Analysis

Geographic location and setting *(nation and island scales)*

Geographic setting description, location, connectivity, location in the Caribbean region, size, shape, surface area, compared to other states, nation countries. Important cities on the Island and their role in Eleuthera.

History and Development *((nation and island scales)*

Historical periods, historical districts, landmarks and sites, traditions, culture, and artifacts. Historic development over time can be illustrated through timelines. History of development, development goals, and development proposals – local and regional, existing large-scale projects, specific development programs.

Demographics *(nation and island scales)*

General population, age, household, economic activity distribution, employment opportunities, economic sectors, migrant population, household income, levels of wealth/poverty, levels of education, ex-pat populations. Most important social problems and strengths.

Economy

Economic bases and activities in the past and today. Major and minor employers and industries. Role of agriculture, tourism, industries in the economy. Economic activity distribution and distribution over time. Employment opportunities and locations, different significant economic sectors. Disney.

Urban Form and Character— Important islands, cities settlement, north and south Eleuthera. Past, present, and future land uses. Typologies of land use, urban density and grain, infrastructure, urban character and architectural character, figure ground.

Circulation and Transportation—Regional, national, international connectivity, road systems, train, auto, water, pedestrian. Road hierarchy, major roads, intersections, bike lanes, pedestrian connectivity, public transportation types and routes.

Environmental factors – climate, micro-climate, hydrology, flooding, water system, terrestrial and marine ecology, ecological problems, groundwater and aquifers, geology, soils, pollution, industry and solid waste, air quality, Sustainability and Sea Level Rise – existing sustainability plans and goals, sea level/flooding mapping and projections, sea level rise strategies. Nature Reserves.

Contemporary culture—Art, culture, music, theater, important national festivals, fairs, holidays, celebration, Eleuthera in the media.

Landscape and Visual Analysis – visual Island character, open space, vegetation, trees, water systems and edge, agricultural land patterns, adjacencies, topography, terrain section, visual character analysis, architectural character.

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



Research & Cultural Analysis

In this phase of our studio, you will work individually/in groups to research and report on your chosen layer of analysis focusing on our project in Eleuthera, the Bahamas. You will be asked to do an analysis of typical landscape conditions and systems, and to present your findings

in a board format using a designed template. Since this is an in-depth research and analysis, and students will work on different topics, we need to make final work available for sharing with all studio members. Therefore, the studio collective research and analysis efforts will assist in reaching a comprehensive understanding of our project site and its context.

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 all available governmental websites. In addition, students will conduct a comprehensive search of Google Scholar to examine academic and scientific research papers and publication that address topics of interest related to the chosen layer of analysis.

In your presentation, make sure you address all points listed and any additional ones as per your discussion with the professor. Since students are conducting different research, consulting with the professor regarding the scope of work is a critical part of the process. In this phase, we are interested in the information and what it means for Tarpum Bay, 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 research. Your research should lead to an analytical summary or takeaways in the conclusion section. Your presentations should include as many maps, graphs, diagrams, photos, and drawings as necessary to enrich and explain your findings and conclusions.

In your presentation, make sure your graphics are of high quality and your written component is informative. Your grade in this project 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 research and analysis below:

Eleuthera Research and Analysis

History, Geography and Development *((nation and island scales))*

Geographic setting description, location, connectivity, location in the Caribbean region, size, shape, surface area, compared to other states, nation countries. Important cities on the Island and their role in Eleuthera.

Historical periods, historical districts, landmarks and sites, traditions, culture, and artifacts. Historic development over time can be illustrated through timelines. History of development, development goals, and development proposals – local and regional, existing large-scale projects, specific development programs.

Demographics *((nation and island scales))*

General population, age, household, economic activity distribution, employment opportunities, economic sectors, migrant population, household income, levels of wealth/poverty, levels of education, ex-pat populations. Most important social problems and strengths.

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Economic bases and activities in the past and today. Major and minor employers and industries. Role of agriculture, tourism, industries in the economy. Economic activity distribution and distribution over time. Employment opportunities and locations, different significant economic sectors. Disney.

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