

Urban Analysis Studies, Greenville, SC & CU-ICAR



In this phase of our studio, you will research and report on historical and contemporary urban analysis aspects of Greenville, SC, CU-ICAR and their context. You will be asked to do an analysis of typical urban conditions and systems, and to present your findings in a board format as well as make the work available for sharing with studio members. This is a collective studio effort to conduct an in-depth urban research analysis in order to reach a comprehensive understanding of our project site and urban context.

Examine the city through all available material on Google Earth Pro, Satellite Pro, Esri, GIS, Open Topography, USGS.gov, and all available city, county, and governmental websites. Collect all data available including photos, research publications, documents, comprehensive planning documents, especially any periodic reporting documents. Then review any other material you may find through research in the Clemson University library online. Additionally, please conduct a comprehensive google scholar search to identify academic papers with relevant content. Your research should be thorough utilizing multiple sources.

Your presentation should address the study topic of choice. In your presentation, make sure you address all points listed and any additional ones as per your discussion with the instructor. Since every student is conducting a 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 Greenville, SC, CU-ICAR. Please describe what is unique about your urban topic and define its most pressing problems and potential responses to those problems evidenced in your research. Your research should lead to a SWOT analysis 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 your thoroughness and completion of the above requirement, depth of data presented, analytical insights, graphic quality of your boards and your verbal presentation.

Greenville, SC Urban Analysis layers:

Demographics – general population, age, household, economic activity distribution, employment opportunities, economic sectors, migrant population, Census data, American Community Survey Data

Urban Form— past, present, and future land uses, vacant land, land use typologies, – ownership private, public, urban density and grain, infrastructure, urban character and architectural character, figure ground, counties, and adjacent town boundaries.

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 (Laurens road, Wade Hampton, I-85)

Environmental factors – climate, micro-climate, hydrology, flooding, water system, terrestrial and marine ecology, groundwater and aquifers, geology, soils, pollution, industry and solid waste, air quality.

Landscape – visual analysis, open space, vegetation, trees, water systems and edge, agricultural land patterns, adjacencies, topography, cognitive mapping Kevin Lynch, visual character analysis.

History and Development – Historical periods, historical districts, landmarks and sites, traditions, culture, and artifacts. History of development, development goals, and development proposals – local and regional, existing projects, specific programs. Major and minor employers and industries, economic base, contemporary culture.

CU-ICAR (& adjacencies) Analysis Layers:

Urban Form— past, present, and future land uses, vacant land, land use of site and adjacencies, land use typologies, – ownership private, public, infrastructure, figure ground, edge analysis and adjacencies, property boundary, site programming and conditions.

Swamp Rabbit Trail (SWT)

Historical background, development, comprehensive planning, land use typologies, nodes, businesses, connectivity, recreation, SWT in CU-ICAR, terrain sections, figure ground, significance of SWT for Greenville and CU-ICAR.

Open space – visual analysis, open space, water systems and edge, agricultural land patterns, adjacencies, figure ground, cognitive mapping Kevin Lynch, architectural character analysis, terrain sections.

Topography— topography, slope, hydrology, surface drainage, water shed, water system, flooding, flood plain, terrain sections.

Environmental factors—soils, pollution, climate and micro-climate heat map, noise analysis heat map, air quality, water quality, terrain sections.

Vegetation— green space, open space, trees, vegetation typologies and vegetation visual character, wildlife habitat, migratory birds, patch and corridor analysis, terrain sections, water edge vegetation analysis, site historic transformation overtime.

Spring 2023
Clemson University
Landscape Architecture Program
CAAH
Instructor: Dr. Hala Nassar

LARC 8520/4540: Urban Design Studio
Credit Hours: 6
Time: 1:30-5:30 pm MW, 1:30-4:30 pm

Urban Analysis The Grand Canal; Yangzhou Resilient Landscape



In this phase of our studio, you will research and report on historical and contemporary urban aspects of The Grand Canal and Yangzhou, China. Students will work in groups to conduct a deep investigation of urban conditions and systems, and present findings in board format in class. Groups will make the work available to studio members both digitally and as a hard copy posted in studio. This research phase is a collective studio effort to conduct an in-depth urban research analysis to build a comprehensive understanding of our project urban context.

Examine your assigned layer of study using all available material on Google Earth Pro, Satellite Pro, Esri, GIS, Open Topography, Baidu.com, and all available city, county, and governmental websites. Collect all data available including photos, research publications, documents, comprehensive planning documents, especially any periodic reporting documents. Information and comprehensive planning documents and maps provided by our counterparts at Huazhong Agricultural University will be available to you on Canvas. Additionally, please conduct a comprehensive google scholar search to identify academic papers with relevant content. Your research should be thorough utilizing multiple sources.

In your presentation, make sure you address all points listed and all additional ones as per your discussion with the instructor. Groups are expected to discuss a plan of collaborative work and assign each group member a share or research, analysis, and board production. In this phase, we are interested in the information and what it means for Yangzhou and the Grand Canal, China. Since our project site is international, introducing background information about the topic is essential in building a well-rounded understanding. Please describe what is unique about your urban topic and define its most pressing problems and potential responses to those problems evidenced in your research. Your research should lead to a SWOT analysis 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 design quality of the boards and verbal presentation. Group members will be receiving a grade commensurate with input in the entire process from beginning to end. Please expect that group members grades will differ based on the respective contribution through out the process.

Urban Analysis Layers:

The Ancient Canal—

Historical background, development overtime, comprehensive planning, importance, significance, land use typologies, change in industrial land use, nodes, businesses, connectivity, visual analysis, recreation, terrain sections, figure ground, existing and future significance of the Ancient Canal for economy, recreation and ecology, national heritage identity, and public space, UNESCO World Cultural Site designation.

Urban Form and Land use and Historic Landmarks—

Present and future land uses, vacant land, change in industrial land use, land use typologies, –urban density and grain, infrastructure, urban character and architectural character, figure ground, historic sites, and landmarks. Urban land use and form of Old and New Yangzhou.

Environmental Factors—

Climate, micro-climate, hydrology, flooding, water systems, terrestrial and marine ecology, groundwater and aquifers, pollution sources (water, air, noise), industry and solid waste disposal and recycling air quality, water quality, heat island effect, climate change effects, health, and disease.

Circulation Transportation and Connectivity—

Regional, national, international connectivity, road systems, train, auto, water, pedestrian. Road hierarchy, major roads, intersections, bike lanes, pedestrian connectivity, public transportation types and routes. Ports, marinas, airports, multi-modal transportation hubs, train stations

Landscape –

Blue and Green network systems. Water edge visual analysis, water edge vegetation analysis. Open space, vegetation, trees, vegetation typologies and vegetation visual character, agricultural land patterns, topography, cognitive mapping Kevin Lynch. wildlife and habitat, migratory birds and routes, terrain sections.