**LSA 470/670 STUDIO IN LANDSCAPE & URBAN ECOLOGY**

**Spring, 2011 209 Marshall Hall**

**MWF 1:00pm – 4:30pm**

**ESF Faculty**

**SUNY Center for Brownfield Studies**

**STUDIO FACULTY**

Professor Emanuel Carter, Landscape Architecture

Professor Douglas Daley, Environmental Resources Engineering

Professor Preston Gilbert, Landscape Architecture

Bonnie Gale, Teaching Assistant, Landscape Architecture

**GUEST CRITICS**

Jeremy Neumann, Senior Scientist, Parsons Engineering

Shaun O’Rourke, Ecological Designer, AECOM

Stephen Harris, City of Syracuse / Onondaga County Arborist

Samuel Gordon, Senior Planner, Central New York Regional Planning

& Development Board

**COURSE OBJECTIVES**

This course is designed to introduce students to:

1. The principles and practices of landscape urbanism.
2. The structure and language of urban communities.
3. The concept of sustainable urban place.
4. The role of natural systems in the creation and enhancement of urban place.
5. The applications of the principles of ecology in urban revitalization.
6. The potential of vacant and contaminated properties in the urban revitalization process.

In this course, students should engage and develop a working knowledge of the following skills:

1. Seeing and feeling the urban community – sequential absorption of the urban landscape; understanding the components, patterns and rhythms of the urban community; learning to balance observation, research, intuition and data to assess and create an ecologically sound and sustainable sense of urban place.
2. Recording, understanding and designing the sustainable urban community – analytical and creative drawing and ecological design as a psycho-motor activity.
3. Manipulating natural systems and their components to enhance urban function and fabric and create new concepts of city, neighborhood, district and place.
4. Integrating a series of visual and functional systems that reflect and affect how we live – designing such systems so as to be built over time, using an informed approach to phasing and funding in a political/administrative context.
5. Understanding the multiple clients and the multiple opportunities for urban ecological design.
6. Understanding the urban community as a work of art that is an evolving chronicle of civilization.

**COURSE METHODS**

Studio Work: research, reconnaissance, inventory, analysis, problem definition, programming, concept development, design, critique(s), more design; lectures, discussions, readings, field trip(s).

**COURSE EVALUATION**

Preliminary Master Plan (presentation / boards) 25%

Interim Master Plan & Site Plans (presentation / boards) 25%

Final Master Plan & Site Plans (presentation / boards) 50%

**REQUIRED TEXTS**

**Biophilic Design**, Stephen Kellert, Judith Heerwagen, Martin Mador

**Biophilic Cities**, Timothy Beatley

**THE PROJECT – FARMERS’ MARKET URBAN ECOLOGICAL DESIGN STUDY**

**TOWN OF RIVERHEAD, LONG ISLAND, NEW YORK**

The Studio in Landscape & Urban Ecology will assist the SUNY Center for Brownfield Studies in developing urban design, urban ecology and community development concepts centered around a major new farmers’ market project in Riverhead, New York. More specifically, the project will address the design of a farmers’ market structure, a year-round controlled environment agriculture system, a community center, spaces for the visual and performing arts, and opportunities for public art. The project will also address the connection of these elements to the surrounding urban landscape and to the Peconic River and the Peconic Bay through urban forestry, urban green infrastructure and natural energy systems with the intention of enhancing the regional ecosystem, taking better advantage of ecosystem services, and making the ecosystem and its performance visible and part of the aesthetic and functional identity of Riverhead. The idea is reconsider Riverhead as a “biophilic community” and to offer local decision-makers, citizens and investors a new vision for the future of the Town center.

The project will be pursued through interdisciplinary design teams that will include second-year graduate students and fifth-year undergraduate students in Landscape Architecture, seniors in Environmental Resources Engineering and seniors completing the Urban Ecology Minor. Much of each team’s work will be addressed by the entire team. Some tasks will be addressed by team members with specific skill sets. The intention is that all team members, regardless of discipline, learn to effectively collaborate with people in other disciplines in order to better address complex urban / environmental challenges.

**CLASS SCHEDULE**

Jan 17

Jan 19 Course Introduction; Project Introduction

Jan 21 Project Research – Public Markets, Biophilic Cities, Biophilic Design

Jan 24 Project Research – Public Markets, Biophilic Cities, Biophilic Design

Jan 26 Project Research – Public Markets, Biophilic Cities, Biophilic Design

Jan 27 Field Trip – Travel to Riverhead, NY

Jan 28 Field Trip – Work in Riverhead, NY

Jan 29 Field Trip – Return to Syracuse, NY

Jan 31 Field Trip Recapitulation; Team Discussions; Site & Context Analysis

Feb 02 Site & Context Analysis / Problem Definition

Feb 04 Site & Context Analysis / Problem Definition

Feb 07 **Presentation**: Project Research, Site / Context Analysis / Problem Definition

Feb 09 Program and Concept Development

Feb 11 Program & Concept Development

Feb 14 **Presentation**: Program & Concept Development

Feb 16 Preliminary Master Plan Design

Feb 18 Preliminary Master Plan Design

Feb 21 Preliminary Master Plan Design

Feb 23 **Presentation**: Preliminary Master Plan Design

Feb 25 Site Design Charrette

Feb 28 Site Design Charrette

Mar 02 Site Design Charrette

Mar 04 Site Design Charrette

Mar 07 **Presentation**: Site Design Charrette

Mar 09 Master Plan & Site Design Revisions

Mar 11 **Informal Presentation**: Master Plan & Sites Design Revisions

Mar 14 Spring Break

Mar 16 Spring Break

Mar 18 Spring Break

Mar 21 Master Plan & Site Plan(s) Revisions

Mar 23 Master Plan & Site Plan(s) Revisions

Mar 25 Master Plan & Site Plan(s) Revisions

Mar 28 Master Plan & Site Plan(s) Revisions

Mar 30 Master Plan & Site Plan(s) Revisions

Apr 01 **Last Major Presentation & Review**:

Master Plan & Site Plan(s) Revisions

Apr 04 Final Master Plans / Site Plans

Apr 06 Final Master Plans / Site Plans

Apr 08 Final Master Plans / Site Plans

Apr 11 Final Master Plans / Site Plans

Apr 13 Final master Plans / Site Plans

Apr 15 Final master Plans / Site Plans

Apr 18 Preparation of Final Document

Apr 20 Preparation of Final Document

Apr 22 Preparation of Final Document

Apr 25 Preparation of Final Document

Apr 27 Preparation of Final Document

Apr 29 Preparation of Final Document

May 02 Preparation of Final Document

May 04 **Final Presentation - In-House**

May 06 **Final Presentation – Riverhead, NY**

**PROJECT TEAMS**

**TEAM ONE TEAM TWO TEAM THREE TEAM FOUR**

Sarah Coombs Nicole Mehevic Andrew Murphy Xiaoyue Zhang

Hsin Ying Hsieh Jessica Gale Chris Mc Carthy Lisa Gorney

Philip Adams Patrick Delaney Nicholas Dodd Scott Pullen

Georgino Dos Santos Evan Gefell Kenneth Gifford Ryan Henry

Jesse Marco Peter Orilio Mariah Phillips Samuel Rogers

Jeffrey Wright Kayla Miloy Michelle Gluck Sarah Lanfear

Kay Ulrich Luke Grasmeyer Xiaohui Wang Joseph Cavender

Jonathan Watterson Cary Ellmers Brian Teller Nicole Chisolm

Jessica Haerter May Muhammad Alex Bischop Eric Ansanelli

David Wright Xiaohui Wang Jessica Ortiz

Matthew Ames

**PRESENTATION**

**Monday, February 14, 2011**

**LSA 470/670 Spring Semester, 2011**

On Monday you will be presenting your ideas about program and concept development or an initial basis for design. No drawings are required. What you must present is a sequence of connective thoughts based on your preliminary research, your site visit and your inventory and analysis.

On trace (or any other) paper each team should present: (1) a preliminary statement of the project mission(s); (2) the results of inventory, analysis and research in terms of issues, opportunities and constraints; (3) what the preliminary mission statement and the issues, opportunities and constraints imply regarding project goals, objectives, principles and criteria; (4) clearly stated goals, objectives, principles and criteria; (5) clearly stated (if preliminary) program elements that would achieve project goals – elements such as a farmers market, a public plaza, a year-round urban farm, new housing, green infrastructure, urban forestry, etc.

There will be an immediate reality check! Working from Wednesday the 16th to Wednesday the 23rd each team will divide in half and sketch two quick project area master plans in order to quickly discover how the proposed program elements might interact and to what extent there is sufficient space to achieve the team’s goals. The product will be annotated sketches and commentary that indicate: (1) the extent to which the project goals can be spatially achieved and; (2) the extent to which mission statement, goals, objectives, principles, criteria and program elements might need to be reconsidered.

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**Design Teams’ Seating Chart**

**209 Marshall Hall**