NEW YORK CITY
COLLEGE OF TECHNOLOGY
the senior-level college of technology
of The City University of New York

CMCE
Construction Management & Civil Engineering Technology
New York City College of Technology

CMCE 1155:

Computers Applications and Engineering Technology

Research Project: Sustainable NYC

Sustainability is a powerful idea that appeals to many institutions and people. In the words of the political scientist John Dryzek, "just as democracy is the only game in town when it comes to political organization, so sustainable development is emerging as the main game… when it comes to environmental affairs." Yet we are confronted by the task of making this idea — this hope, really — into reality.

There is also a larger argument to be made about New York City's influence in a world filled with cities. Good New Yorkers, I think, innately believe that New York City has everything, and that the city has an outsized effect on the world. The city that we enjoy today, however, is in large part thanks to the work of visionaries over a century ago, who built the water system, preserved crucial park space, and planned the shape of the city for both continuity and change. To meet growing environmental challenges, and to lead the way for other cities, we need to continue to set similarly ambitious goals for the future.
David Hsu
Fellow of the Design Trust for Public Space

Hsu, David. *Sustainable New York City*. New York: Design Trust for Public Space, 2006. Pg 5.

Assignment:
Research a specific project in NYC from the list below that demonstrates sustainable design and contributes to the City's sustainability efforts. **Your final product to submit will be a research paper and Power Point presentation.**

Requirements:

- After exploring the subject, you will finalize your topic with me during class, 2/21.
- **YOU MUST VISIT THE PROJECT, TAKE PHOTOS/DOCUMENT THE BUILDING.** Make sure to get required permission for access and documentation prior to your visit. It is advised to wait till you have sufficiently researched your subject and then go to visit the site. This will allow you to fine tune your visit (What do you want to see? Is there someone you can schedule a meeting with that can provide more information?) and help ensure that you only need to make one trip!
- **Research Paper must include:**
  - Word document with file name: "Sustainable NYC_Last, First Name"
  - Cover Page with:
    - Title
    - Student Name
    - Student Section
    - Date Due
  - Approximately 5 pages: (1) the cover page; (1) pictures can account for only 1 page length; (3) pages for the body of the paper, double spaced, Times New Roman size 12, 750 words minimum
  - Minimum of 3 references
  - Include drawings (plans/details/maps) and pictures that are properly cited
  - Questions to consider:
    - Why was the project created?
    - When was the project created, designed, built?
    - Who is responsible for creating, designing, building, funding the project?
    - What features support the project's sustainability?
    - Where is the project located and does this impact it's sustainability?
- **Power Point Presentation must include:**
  - Power Point presentation with file name: "Sustainable NYC_ Last, First Name"
  - Provide an overview of your selected project. Outline key elements in your research paper and make sure to give sufficient project background and sustainable aspects.
  - Images and other media to describe your topic
  - Minimum of 8 slides
- **Properly cite all primary and secondary references. Use MLA 6th edition to cite all sources, include entire web address. Remember not to plagiarize!**
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First Draft Due: 2/31 at the start of class. YOU MUST TAKE YOUR FIRST DRAFT TO THE LIBRARY FOR PROOFREADING AND PROVIDE ME WITH PROPER DOCUMENTATION.
Final Due Date: 3/14 at the start of class
A printed copy and digital copy of the research paper and the powerpoint presentation must be submitted at the beginning of class in a binder. Late projects will not be accepted. Email the digital copy to Prof.N.Anderson@gmail.com. **Each student will present their project (Power Point presentation) during class** March 14th.

Projects:

- Brooklyn Botanic Garden Visitor Center
- Bank of America Tower
- The High Line
- The Navy Yards
- Brooklyn Bridge Park
- LeFrac Center at Prospect Park
- Holding Pattern, temporary housing unit
- Brooklyn Passive Houses
- Queens Botanical Garden
- 9/11 Memorial and Museum
- Hearst Tower
- The New Whitney Museum
- Columbia University Facilities
- 41 Cooper Square, Cooper Union
- Via Verde, Bronx
- NYC Urban Planning
- NYC Infrastructure

If you would like to research a project not on this list, your ideas are most welcome and encouraged! You must discuss your selection with me for approval.