**Official Group Project: Technical Proposal and Presentation.**

- Group Online Posts due: Fri, April 7, noon.

- Proposal Draft Work Due: Thurs, April 27, 8am for in class peer review workshop

- Final draft- Tues, May 2, 8am. ALL groups should be prepared to present Tuesday morning.

* Since 2017, various parts of the world: the United States (parts of Florida, Houston, the Carolinas), the West Indies (USVI, Puerto Rico, Dominica, islands of the BVI, St Maarten, Barbuda, Cuba, Anguilla, the Bahamas, etc,) and Asia (Indonesia, Japan, the Philippines), wildfires in both California and Australia, were drastically affected by hurricanes Maria, Irma, Michael, Irma, Ida, and Ian, earthquakes, wildfires, and a tsunami respectively. These areas are undergoing massive rebuilding projects, changing infrastructure, and considering ways to update various aspects of life in these areas so that such immense damage is less likely to occur in the wake of other natural disasters. Power grids, computer systems, roads, bridges, buildings, animal habitats, entire ecosystems, to name a few things, have been destroyed. Hospitals, airports, schools, water supplies, etc. have been severely impacted. Despite the amount of human suffering and impact upon infrastructure that has occurred in the wake of these events, these natural disasters have actually made for an engineer’s dream: How can you, as an engineer, positively impact these areas in their times of greatest need with your innovations/ideas/product?
* The assignment is a multimodal group project which consists of each pre-assigned team creating a hypothetical company: name, logo, mission statement, job posting, boilerplate, team member bios with résumés, a and code of conduct, and developing and displaying this specific company information on a CUNY Commons website, a properly composed engineering proposal according to genre conventions outlined by the Markel textbook, and a team powerpoint that discusses their idea/item/innovation.
* Each team’s task is to consider the above situation in light of their engineering concentration (civil, electrical, computer, mechanical, chemical, etc) and develop an idea/innovation/product that is designed to assist the rebuilding process or improve an aspect of life in one of these areas in some way. Each team’s project must promote sustainable practice/approach as it pertains to the area that the team is working in/with. For example, it is important to keep in mind that sustainability practices in NYC might look different than sustainability practices in the Philippines.
  + Ideas/designs might have something to do with infrastructure: bridges, roads, sidewalks, etc. Your idea might have to do with solar panels and electrical grids, water collection (as islands are notoriously yet ironically always short on water), anything, there is no limit to idea but money must be considered (you need a budget, natural disaster repair is ALREADY expensive). \*These are just some ideas you are not required to use them.
* Groups will need to do some outside research to become experts on the regions they have selected, the impact of the natural disasters, see what problems have surfaced (as far as issue/location/reason), which you will incorporate into your project
  + This serves as the project’s introduction/history/background part
* The entire project requires
  + Rough Abstract post on BB
    - 1 online blackboard post per team which answers the following questions:
      * Project Title, Team/Company Name, Team Members, code of conduct, mission statement, boiler plate.
      * Identifies what work is to be done
      * Explains why this work needs to be done
      * Persuades audience that the proposers are qualified for the work, have a plausible management plan and technical approach, and have the resources needed to complete the task within the stated time and cost constraints (the multimodal aspect)
      * Proper specificity of audience, ideas, regions, etc.
      * Attention to sustainability practices
      * A student designed, CUNY Commons website that requires the following:
        + Cover page
        + Company name
        + Company logo
        + mission statement
        + Job posting of a necessary staff member you might need that isn’t already on your team.
        + Brief team member bios with résumés
        + Company code of conduct, and developing and displaying this specific company
  + at least three separate and distinct, complete audience analysis documents that demonstrate consideration, research, and diligence on who you are presenting to and why you selected these individuals for your audience
  + The engineering proposal document- which will be posted on the CUNY Commons website. The engineering proposal must follow the genre conventions of Markel ch 21 and should be broken up into sections, separate pages, on a drop down menu, and must comprise the following sections:
    - A brief memo that gives a brief introduction to who the company is and the purpose of the project
    - A cover page creation with an image and a Table of Contents
    - A page for the introduction section
    - A page for the Proposed Technical Approach
      * The technical description- a brief technical description of your idea/innovation/product,
      * Expected project results
      * Schedule and Budget
      * Properly composed references in APA format
      * Powerpoint- Could be a simple download
  + timed Powerpoint that each group will present to the class
    - should not be more than 10 minutes with an additional 5 minutes for Q&A session
    - must have a title slide, and reference slide with proper APA references and at least 6 content slides (yes you can have more if necessary)
  + A reflection paper (of at least 2 pages) EACH group member will compose his/her OWN reflection paper and place that in a separate section of the website
    - each groupmate’s role in the project (exactly WHAT he/she did), the necessity/importance of teamwork/collaboration in Engineering, as well as analysis of how the projects fits into each of the the rhetorical elements and how the project met specific course learning outcomes and feedback on this project as a multimodal, digital project
  + Team member assessments- group mates are required to assess their teammates using the rubrics on the course site. I will take these into consideration while grading. If you are largely a good teammate, then there’s no issue; however, if you are not pulling your weight and your teammates report it, you will not receive the grade everyone else does.
    - These will be submitted via email on the project due date for privacy reasons.
* Project objectives:
  + Innovation
  + Group work
  + Oral presentation
  + Digital Media Design
  + Overall thoroughness and logic of proposal structure
  + Genre Composition and Analysis
  + \*\*Seeing how part of this project is being completed in digital media, projects should be both highly visual with use of fonts, images, (videos, if you choose), yet still persuasive and specific as the project and the genre demand.
    - \*\*Any images used that do not belong to students must have in text citations in APA format