

## Project pitch (Feb 3<sup>rd</sup>)

- To do: share a broad idea of your project with classmates (~ 5 min) with a couple of PowerPoint slides.
- Guidelines (the following should be included):
  - Problem statements: why your project is vital to the community
    - e.g., spatial inequity of healthcare accessibility is closely related to the socioeconomic status of residents.
  - Goals of your project.
    - e.g., measure spatial accessibility to hospitals in Champaign-Urbana.
  - Tentative GIS skillsets you are planning to implement.
    - e.g., geocoding, network analysis, and spatial clustering
  - Tentative Data you are planning to utilize.
    - e.g., hospital locations, census tract residential population, etc.
- Notes
  - No submission is required of the pitch PowerPoint.
  - Grad students (mandatory) and undergrads (optional).
  - Pitchers are encouraged to make your project idea interesting and solid to grasp more people's attention and possibly have more candidates for your project.
  - Undergrads are encouraged to show their intention to enroll the projects to the team leaders so that the leaders would remember you when they pick teammates on Feb 8<sup>th</sup>.

## Team matching (Feb 8<sup>th</sup>)

- Team members will be assigned equally.
  - If there are 4 teams, each team would be a total of 3 or 4.
  - If there are 5 teams, each team would be a total of 2 or 3.
- Undergrads will submit their first and second preferences for the pitched projects to the instructor.
- Team leaders will have a right to choose their members if there are more people interested in your project than the number of people that should be assigned to.

## Project proposal presentation (Mar 8<sup>th</sup>)

- To do and hand in:
  - Write a project proposal document (~5 pages excluding title page and reference) and present the key points of the project proposal (~10 minutes) with the help of your team.
  - Submit the written proposal and PowerPoint via <https://learn.illinois.edu>. Each team member will submit the same file.
- Guidelines (both written proposal and presentation should have the following):
  - Project information
    - Project title, team members, and their roles for the project.
  - Project overview
    - What is your project attempting to achieve, broadly speaking?
    - What is the motivation for this project?
    - Why is a project like yours needed?
  - Project details
    - What is the timeline for each, and succession of, each of the project tasks that need to be completed for your project to be a success?
    - What kind of GIS skillsets will you use? How are they related to accomplishing the goal of your project?
    - What kind of data will your project utilize? How will they be fed into the GIS skillsets, and what will be the output of each task?
- Grading (5 points: 3 points for the written proposal, 2 points for presentation):
  - Did you utilize a proper format and ensure consistency and proper grammar?
  - Have you identified a project that will demonstrate mastery of course material?
  - Did you clearly describe what you are trying to accomplish and why it is important?
  - Do you have a reasonable plan for achieving your goals?

## Project final presentation (Apr 26<sup>th</sup> and/or Apr 28<sup>th</sup>)

- To do and hand in (example: <https://shorturl.at/vFJS2>) :
  - Demonstrate the project's final product using a Jupyter Notebook (~ 20 minutes). The notebook should include every detail of the project, including figures, workflow, but not limited to. You may use PowerPoint if necessary.
  - Submit a Zip file (a Jupyter notebook and related files) via <https://learn.illinois.edu>. Each team member will submit the same file.
- Guidelines:
  - Project information
    - Project title, team members, and their roles for the project.
  - Project overview
    - What was your project attempting to achieve?
    - How was your project novel, innovative, or different from what others have already tried related to your topic?
  - Project details
    - What approaches did you use to create your project, manipulate your data, and complete your analysis?
    - How did you take advantage of Python programming to tackle the project in each process?
    - What data did you use in each process and where did it come from?
    - What challenges did you encounter during the completion of your project, and what did you do to address them?
    - What would be the next step of this project if you have a chance to continue working on it?
- Grading:
  - From instructor (5 points):
    - Does your project demo prove that your project goals were achieved?
    - Has the analysis of the project been processed in a reasonable manner?
    - Does each cell have enough comments to let others understand its purpose so that people easily reproduce and replicate the result?
  - From classmates (inter-team review; 10 points):
    - Does your presentation clearly define the project goals?
    - Does your presentation demonstrate the plan used to accomplish the project goals?
    - Was the project demonstration understandable, and do you think you can reproduce the result?
  - From teammates (intra-team review; 5 points):
    - Responsiveness: did the person respond to emails and show up to meetings?
    - Reliability: did the person do what they said they would do?
    - Contribution: did the person contribute to the project?
    - Work with again: would you work with this person in the future if you have a chance?