`Python Project Proposal

1. The Big Idea: What is the main idea of your project? What topics will you explore and what will you generate? What is your minimum viable product? What is a stretch goal?

* Main Idea: understand Babson’s academic course requirement and allow users to check their required academic requirements ( what they need to take in order to graduate)
* It is hard to fully understand which classes we need to take before graduation, so we are going to provide better system that can help people understand what they need to take in general. So, we are going to put Babson’s entire course listing and credit number.
* Users can see which course is under which category.
* Minimum Viable Product: Program that checks required course and tell what else is left along with the total number of credits one took.
* Stretch Goal: Make the program that can be applied to every school. By using this, we hope freshmen can feel easier to make a plan

2. Learning Goals: Since this is a team project, you may want to articulate both shared and individual learning goals.

* How to deal with list and groups and match right variables
* Able to understand the whole coding and utilize the same coding for different work/program.
* Collaborative mindset / work
* Developing strategy to identify problems and solve them

3. Implementation Plan: this will probably be pretty vague initially. Perhaps at this early juncture you will have identified a library or a framework that you think will be useful for your project. If you don't have any idea how you will implement your project, provide a rough plan for how you will determine this information.

* First, we will get the full list of courses in our school along with the number of credits
* Second, we will compile them together through the dictionary.
* Third, develop the code that can calculate the total number of credits the user took. Then, it will also provide information of which kind of classes the user have to take to graduate.
* We do not have clear implementation plan yet, we need more time to discuss and finalize the plan

4. Project schedule: You have 8 weeks (roughly - I know thanksgiving week is off) to finish the project. Sketch out a rough schedule for completing the project. Depending on your project, you may be able to do this in great specificity or you may only be able to give a broad outline. Additionally, longer projects come with increased uncertainty, and this schedule will likely need to be refined along the way

* Week 1: gather list of courses and number of credits
* Week 2: we are going to ask some questions to peers regarding any inconvenience they experienced when they look up information of courses.
* Week 3: make Final decision which information is necessary and unnecessary and begin to design our program.
* Week 4 & 5: Building systems and check any errors in our coding
* Week 6: Check any errors and pre-run the program
* Week 7: Finalize
* Week 8: Review and submit

5. Collaboration plan: How do you plan to collaborate with your teammates on this project? Will you split tasks up, complete them independently, and then integrate? Will you pair program the entire thing? Make sure to articulate your plan for successfully working together as a team. This might also include information about any software development methodologies you plan to use (e.g. agile development). Make sure to make clear why you are choosing this particular organizational structure.

* We are going to do whole task together.
* We are going to meet at least once a week and check our progress.
* After we finished coding, we will review together
* We are going to divide into two parts in searching for codes related to our project, then we are going to share what we found and learned.

6. Risks: What do you view as the biggest risks to the success of this project?

* Our understanding of coding.
  + When we have to do more than we learn
* Time management
  + With teammates
  + With our current school schedule
* Getting enough materials for this project

7. Additional Course Content: What are some topics that we might cover in class that you think would be especially helpful for your project?

* Dictionary
* List
* Loops
* Dealing with multiple groups of list