PROJECT 1 CONCEPT SKETCH

ELine 3 logic Changes

Probability#2-fixed per person for if they leave

Here we go! The goal of this activity is to generate a set of coherent, feasible ideas for Project 1. Working with your project partner(s), generate ideas for each of the four boxes below. Then select or refine these ideas to develop a single "concept sketch" by filling in the boxes. If you would like to develop multiple ideas, extra handouts are available — please feel free!

Question

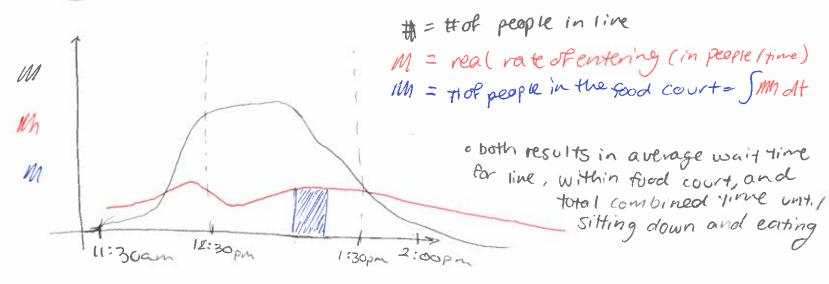
What is the motivating question? Capture it as concisely as you can.

When can you get Tunch fastest @ the Olin Dining Hall?

4) measured in average time before swiping 4) potentially average time to go through the stations

3 Results

What does an answer to the question look like? What output would you expect the model to produce? Draw at least one graph — be sure to label the axes.



2

Model

How can a model help you answer the question? What are the key elements of the model (e.g., state actions parameters metrics)?

parameters: forobability of entering line at a given time based on class sinedule

-total students trying to eat hundr @ Olin

-maximum rate of swiping in (input rate).

- probability of being done getting food (per person)

- maximum number of people getting food at the same time.

variables: real rate of swiping in

duta-based:

- now much real rate changes of ppl in food the imput rate of Swiping in

wetrics; you loud the average barson marked in like on their

4

Interpretation

Why would the results answer the question? What implications might they have in the real world? Why should people care?

e results would inform us of general trends as well as the actual wait times

4 shows difference between congestion 3 business

· People care ble people don't like weiting in live · Implication of Lilo & I getting our lunches super quickly, and renowing when to be prepared for a long wait

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