

## MI 488/IAH 205

### Design Project Assignment #2: Brainstorming and Sketching (20 points)

**Due Before Class on March 15. One member of your team should upload your assignment to D2L. Each team member should photograph/scan their sketches and upload them in a single file to D2L. Please bring hard copies of your sketches to class.**

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By this point in the project, you should be working with your team and an Egerton student on a potential design problem. Now that you have conducted some preliminary research, you must define your design problem and begin to creatively imagine possible solutions to it.

You will begin this project by working with your group to define the problem you want to solve. Please answer these questions before you begin brainstorming and sketching design concepts.

**Group Members' Name:**

**Technologists-in-Residence (Egerton Student):**

- 1) What are the specific **problem(s)** associated with **[[YOUR DESIGN PROBLEM]]** (a single sentence).

- 2) Now try phrasing this as a **design question(s)**. This can set you and your team up to be solution oriented and to generate loads of ideas along the way. Please develop at least three questions.

- 3) State the **ultimate impact(s)** you're trying to have. More specifically, include at least three types of impact (e.g., your project will **influence** [blank], **result in** [blank], have an **impact** on [blank], improve upon [blank]).

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After you have answered these questions, your team will begin brainstorming design concepts. A design concept is a foundational idea that gives a design its meaning and direction (such as a drone that delivers medication, a driverless bus that takes students around campus, or a skywriting airplane that delivers information to rural farmers).

As a team, conduct a brainstorming session and generate at least 20-25 different design concepts that are possible solutions to your problem. Work together to create these ideas, and don't focus too much on who actually came up with the idea. In other words, work towards developing your concepts collaboratively. Use Chat GPT to help you develop ideas! Your description of the concept must explain how it will address your problems. For example, a redesigned website is NOT a concept; however, a redesigned website that improves communication between students and advisors by integrating a chat feature into the website is a concept. Write down your ideas on this worksheet.

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title on each sketch, as well as 1-2 description of what it is. One idea per sheet of paper. Use bold lines, annotations, etc.

- Use the medium of your choice (e.g., Adobe Photoshop, pencils, markers, crayons, etc.)
- Ideas can range from mundane and practical to “blue sky”

#### **How will it be graded?**

- 17-20 Points –The assignment is complete; the ideas represent a range of creative ideas. The sketches effectively demonstrate an understanding of the sketching concepts discussed in class. The team clearly worked together on the assignment’s initial phase.
- 11-16 Points The assignment is complete, but the ideas are not well motivated. The sketches are difficult to see.
- 0-10 Points – The assignment is incomplete; the ideas are not well motivated and/or the document is unprofessional or unclear.