Pedagogical script

MGA 680 "Sustainability in Interaction Design"

This course in delivered online, using the Google Classroom. Online activities are organized in bi-weekly modules, each focusing on a specific set of topics. Each module runs from the Monday on the first week to the Sunday on the second week. For each module, a post will open up the discussion on the theme of the topic.

For each topic, all feedback, questions and outcomes of the required activities (including links to assignments) must be posted as comments to these bi-weekly posts.

In order to successfully conclude this course, students are required to individually:

- Actively participate in all online activities, including the synchronous sessions;
- Create and present a concept map of an article introduced during the first module (Assignment 1).

Students are further required to, in groups of two:

- Critique interactive systems and services based on sustainable design principles and deliver the results of group work as design critiques (Assignment 2);
- Participate in a Design Challenge with 7 distinct steps outlined for each module:
    1. Planning the work on Design Challenge,
    2. Outlining a problem,
    3. Reading literature related to the problem and/or carrying out observations,
    4. Defining a problem and solution to it,
    5. Creating and giving feedback on conceptual solutions,
    6. Creating and/or evaluating prototypes and
    7. Presenting the outcomes of the design challenge (Assignment 3).

The script for this course is also available in the Visual Timeline for the course (see Google Drive for the MGA 680, the **Introduction** folder).

The structure and assignments of the course are organized into seven modules presented below.

September 12 – 25
- **Module 1. Weeks 1 and 2**
- Read the material covered in 1. Sustainability and HCI post;
- Read the paper "Mapping the landscape of sustainable HCI" by DiSalvo et al.;

- Create and share a concept map according to the instructions of Assignment 1. Concept Map (**due by September 25**);
- As part of Assignment 3. Design Challenge; start working with your peer(s) on planning the Design Challenge work that you will do together during this semester. See Assignment 3, Step 1: Plan Design Challenge (**due by September 25**);
- During Week 1, meet online over Google Hangouts (the facilitator will be available for 2 hours during the online session to discuss the Module 1 and the assignments due by September 25);
- For further information, consult the articles referenced in Additional Readings for Module 1 (*optional*);
- For inspiration, read Design For Sustainable Change. Chapter 1 (*optional*).

- **Module 2. Weeks 3 and 4**
  - Read the material covered in 2. Sustainable Interaction Design post;
  - In your group, identify and write a critique of a solution as described in Assignment 2. Design Critique # 1 (due by the end of Week 4).
  - In your group, identify, discuss and develop a short description of a problem as described in Assignment 3, Step 2: Outline a Problem (due by the end of Week 3).
  - By the end of Week 3, meet online over Google Hangouts for 2 hours to discuss the module and present your problem outline.
  - For further information, consult the articles referenced in 2. Sustainable Interaction Design (*optional*);
  - For inspiration, read Design For Sustainable Change. Chapter 2 (*optional*).

- **Module 3. Weeks 5 and 6**
  - Read the material covered in 3. Sustainability in vs. through Design;
  - In your group, identify and write a critique of 2 solutions as described in Assignment 2. Design Critique # 2 (due by the end of Week 6).
  - In your group, share and reflect on insights gained from literature and your own observations related to a problem as described in Assignment 3, Step 3: Read and Observe (due by the end of Week 5).
  - By the end of Week 5, meet online over Google Hangouts for 2 hours to discuss the module and present your insights related to the problem based on your readings and observations.
  - For further information, consult the articles referenced in 3. Sustainability in vs. through Design (*optional*);
  - For inspiration, read Design For Sustainable Change. Chapter 3 (*optional*).

- **Module 4. Weeks 7 and 8**
  - Read the material covered in 4. Complexity and Systems Thinking;

- In your group, write a detailed analysis of the problem identified by you and a description of your proposed solution as described in <u>Assignment 3, Step 4: Define the problem and solution</u> (due by the end of Week 7).
- By the end of Week 7, meet online over Google Hangouts for 2 hours to discuss the module and jointly deliver a presentation on the problem analysis and the solution proposed by your group.
- For further information, consult the articles referenced in <u>4. Complexity and Systems Thinking</u> (*optional*);
- For inspiration, read Design For Sustainable Change. Chapter 4 (*optional*).

- **Module 5. Weeks 9 and 10**
  - Read the material covered in 5. <u>Futures Thinking</u>;
  - In your group, create concepts reflecting your proposed solution as described in <u>Assignment 3, Step 5: Create Concepts</u> (due by the end of Week 9).
  - By the end of Week 9, meet online over Google Hangouts for 2 hours to discuss the module and jointly present and critique concepts.
  - For further information, consult the articles referenced in 5. <u>Futures Thinking</u> (*optional*);
  - For inspiration, read Design For Sustainable Change. Chapter 5 (*optional*).

- **Module 6. Weeks 9 and 10**
  - Read the material covered in <u>6. Undesign, Values, Well-being, (Non)consumption</u>;
  - In your group, create and evaluate prototypes for your proposed solution as described in <u>Assignment 3, Step 6: Create/Evaluate Prototypes</u> (due by the end of Week 9).
  - By the end of Week 9, meet online over Google Hangouts for 2 hours to discuss the module, present your prototypes and give feedback to others.
  - For further information, consult the articles referenced in <u>6. Undesign, Values, Well-being, (Non)consumption</u> (*optional*);
    For inspiration, read Design For Sustainable Change. Chapter 6 (*optional*).

- **Module 7. Weeks 9 and 10**
  - Read the material covered in <u>7. Post-sustainability</u>;
  - In your group, create a presentation of your Design Challenge as described in <u>Assignment 3, Step 7: Present Design Challenge</u> (due by the end of Week 9).
  - By the end of Week 9, meet online over Google Hangouts for 2 hours to discuss the module and jointly deliver a presentation on the outcomes of your Design Challenge.
  - For further information, consult the articles referenced in Module <u>7. Post-sustainability</u> (*optional*);
    For Inspiration, read Design For Sustainable Change. Chapter 7 (*optional*).