Assignments - CS6150, Computing for Good, Fall 2021

Professor: Santosh Vempala  
**UNDER CONSTRUCTION**

[Schedule](schedule.docx) | [Syllabus](syllabus.docx) | [Public Site](https://computingcenterforsocialgood.org/c4g2/) | [Academic Calendar](https://registrar.gatech.edu/calendar) | [Resources](#Resources)

(santosh: is the Mid-term paper worth 15% or 20%? We had another 5% for assignments, right? Is that folded into participation?)

(dante: I will modify this per the info in the Course Outline doc.)

* ~~On-Boarding Quiz~~
* ~~Project: 70% (reflection papers)~~
  + ~~Milepost 1 - 33%~~
  + ~~Milepost 2 - 33%~~
  + ~~Project Deliverable Presentation - 34%~~
* ~~Mid-Term Exam (paper): 15% - All readings/material from 1st half of course~~
* ~~Assignments: 15% (or 5% for Assignments, and 5% for Participation?)~~

|  |  |
| --- | --- |
| **Assignment** | **Weight (%)** |
| [On-Boarding Quiz](#Onboarding) | 0 |
| [Assignment 1 (Skills/Interests)](#Assignment1) | 1 |
| [Assignment 2 (Tech Survey)](#Assignment2) | 4 |
| Midterm Paper | 15 |
| Project  Initial Goals (individual)  Team Formation  Team Goals & Deliverables  Present to TA  Team Web Page  Initial Evaluations (with partner organizations)  Demo (present to TA)  Field Evaluation  Final Report  Final Presentation (video recording) | 70  2  3  5  5  5  10  10  10  10  10 |
| Peer Project Evaluation | 10 |

On-Boarding Quiz [[TOP](#_top)]

This is simply a Canvas quiz to ensure that the quiz functionality is enabled for you and you’re all set for the Mid-Term Exam.

Assignment 1: Skills & Interests Exercise [[TOP](#_top)]

**NOTE:**Your name and your assignment will be posted for your classmates to see to facilitate team formation. However, your grade will not be publicly posted. Please submit in plain text only to facilitate posting to Piazza.

**Purpose.** This assignment kicks off the Project, which comprises a large part of your final grade. The goals are as follows:

* Describe your skills and interests
* Learn about the skills and interests of your classmates
* Foster collegiality and  participation in the class

**Grading.**You will be graded according to the rubric below. An ideal submission is succinct and communicative. Brevity is appreciated by both classmates and the TA team. The rubric is:

* Overall efficiency/effectiveness of communication - 40%
* Minimum of 3 skills (HTML, Python, etc.) - 30%
* Minimum of 3 interests in the realm of computing for good (environment, hunger, etc.) - 10%
* Your time zone/country - 10%
* Things important to you regarding team dynamics - 10%
* OPTIONAL: Hobbies, videoconference feng shui preferences,  etc. - 0%

Assignment 2: Tech Survey [[TOP](#_top)]

Project

**Description**

Your project may come from the [Potential Partners](potential_partners.docx) document; alternatively, you may select another organization. If you choose an alternative organization, please forward the following information to the Instructors Team: website URL, contact name, contact email, contact phone. Your project is expected to reflect a level of maturity consistent with a graduate program in computer science, and commensurate with the number of team members. The project assignment should be designed to mitigate one or more societal issues. The primary goal should be to increase good for society. This “good” is loosely described as improving one or more of the following issues:

* Hunger
* Homelessness
* Peace
* Environment
* Social justice
* Indigenous rights

**Team Formation Guidelines**

The main component of this course is a project. The project should benefit an organization or cause of your choice. We recommend working in a team so that you can leverage diverse backgrounds and talent. However, you may choose to work alone. If you choose to work in a team, you are limited to a maximum of 5 members.

In the first week, you will be indicating your interest in topics. Alongside, please post your intention to form or join a team in the appropriate Piazza thread. Each team (regardless of size) is required to submit a weekly report for the duration of the project period. This period will be announced in Canvas. Any issues with team formation or dynamics should be brought to the attention of the Instructors team early on and ASAP. Please do not wait until the last minute to inform the Instructors of issues within the team.

*The Team Formation Process*. This is outlined in the steps below:

1) Instructors team - posts available projects to Piazza  
2) Students - post reply to the project with which they would like to work; students are welcome to suggest their own ideas for projects.  
3) Project member – submits Milepost 1 Document to Canvas Assignments. NOTE: If you achieve the maximum number of students (5) allowed on a team, please post in bold font, at the top of the Piazza Project Thread, the word **Closed.**

*Milepost 1: Team Formation Process (33% of Project grade)*.

Your team’s Milepost 1 Document will be evaluated as shown below:

(santosh: are these points consistent with our overall grading scheme?)

(dante: I’m not sure. I may have created this part of the doc before the Course Outline was completed for the Project. I’ll adjust all info in this doc per the Course Outline doc.)

|  |  |
| --- | --- |
| **Category** | **Points** |
| Team name | 15 |
| Project lead’s name | 15 |
| Team members’ names | 15 |
| Each team member’s assigned duties | 10 |
| Description of the problem you hope to solve | 10 |
| How you plan to mitigate the problem | 10 |
| Challenges you anticipate | 10 |
| Achievements, if any, so far | 5 |
| Milepost 2 goals | 10 |
| **Total** | 100 |

*Milepost 2 Document: Field Evaluation (33% of Project grade)*

Your team will be evaluated by presenting the following questions to your client organization:

|  |  |
| --- | --- |
| **Evaluation Item** | **Points** |
| How well did the team solve your problem? | 50 |
| How sustainable/maintainable is the deliverable? | 20 |
| How accessible was the team lead and/or members? | 15 |
| If you decide to augment your technical staff, how likely would you be to hire a member/members of this team? | 15 |

*Final Deliverable (34% of Project grade)*

|  |  |
| --- | --- |
| **Category** | **Points** |
| Video | 50 |
| Poster \* | 30 |
| Accessibility\*\* | 20 |
| Report (submitted individually; please also see Schedule). |  |

*\*Poster.* This will be a digital conference-style poster that illustrates your project. Here’s a [guide](https://guides.nyu.edu/posters). Please feel free to post other references you found valuable to Canvas.

\*\*[Accessibility Resources](#Resources)

Mid-Term Exam (Reflection Paper)

The midterm “exam” is a reflection paper on the broad topic of ***sustainability***. **Further details will be announced on or around Monday September 20, 2021**. As listed in the Syllabus, it is **due on Sunday October 10, 2021 11:59 PM**. Please abide by the following guidelines:

* 5-8 pp single-spaced, 1000-2000 words
* Use any resources you would like (text, Google Scholar, etc.)
* Cite per scholarly best practices
* Include but do not limit your paper to the following categories on which you’ll be assessed:
  + Important general considerations – 40%
  + Stakeholder impact on sustainability – 30%
  + Examples of sustainability failures and their causes – 30%

Peer Review

During the project period, you are required to provide **two weekly project reviews** – one of your project, and at least one other class project (please see links in Piazza for project locations). Please provide *substantive* [constructive criticism](https://www.indeed.com/career-advice/career-development/constructive-criticism) of the project at its expected stage of development for that week. The above link provides a guide for what constitutes constructive criticism.

Resources (W3C)

Accessibility Evaluators

* [W3C Guidelines](https://www.w3.org/WAI/standards-guidelines/)
* [Level Access](https://www.webaccessibility.com/)
* [Wave](https://wave.webaim.org/)

[HTML Code Evaluator](https://validator.w3.org/)

[CSS Evaluator](https://jigsaw.w3.org/css-validator/validator.html.en)