Syllabus - CS 6150, Computing for Good

**UNDER CONSTRUCTION**

**Introduction**

Computing for Good (C4G) provides students from various backgrounds the opportunity to gain skills related to social good tech projects. The computing for good domain involves a variety of topics including pre-deployment considerations, architecture, deployment, and sustainability.

Students will explore C4G through the creation and deployment of a semester-long project, created either individually or through a team. Projects are chosen by each student and/or team. In the past, these have included topics such as hunger, peace, homelessness, climate change, social justice, etc. Teams may choose their own tools, e.g., Swift, Dart/Flutter, PHP, MySQL, Java, HTML, etc. Case studies of projects, successful and failed, accentuate the team project.

**Objectives**

The courses primary objectives are~~:~~

* To provide exposure to the tools required to execute a C4G project
* To develop an appreciation of the components and factors leading to both successful and failed C4G deployments
* To gain an understanding of the domains that can benefit from C4G projects based on best practices

**Topics**

Selected topics include:

* Toyama’s Law of Amplification
* Technology myths
* The danger of quick fixes
* Technocratic orthodoxy

**Assignments/Deliverables**

* [Mid-Term](assignments.docx): Sunday 10/10/2021 11:59 PM (Fall Break: 10/11-10/12/2021)
* [Team Project](assignments.docx): Sunday 12/9/2021 11:59 PM (Finals: 12/9-12/16/2021)

**Miscellaneous Information**

* [Academic Calendar](https://registrar.gatech.edu/calendar)

**Papers**

* [C4G BLIS: Health Care Delivery via Iterative Collaborative Design in Resource-constrained Settings](#papers/c4g_blis.pdf) – Vempala et al
* [ICT4D 2.0: The Next Phase of Applying ICT for International Development](http://papers/ictd2_heeks_2008.pdf) - Heeks