**INTA / ME 4744 – Global Development Capstone**

**Course Description:** Teams develop solutions to multidisciplinary problems selected from development, sustainability, globalization, food security, infrastructure, capacity building, health, water, sanitation, hygiene, ecosystem resilience, services, capacity building, and urbanization. Students work in teams to develop solutions in response to problems identified in sustainable global development policy. All solutions must be suitable, sustainable, and scale-able. This experience will allow the students to experience engagement in context.

**Credit:** 3-0-3

**Prerequisites:** INTA 2050 – Introduction to Global Development

**Instructors:** Jonathan Colton, ME; Zak Taylor, INTA; Kirk Bowman, INTA

**Learning Outcomes:**

The student will demonstrate the ability to:

* Integrate an interdisciplinary perspective in analyzing development issues or problems.
* Work on multidisciplinary teams to design solutions to development issues that are sensitive to local social and political variables and conditions.
* Assess the experience of the people and institutions that are the targets of their development activities.
* Professionally communicate and articulate their projects and results in written and oral forms.

**Required Texts:**

Human Centered Design – free download from IDEO website <http://www.ideo.com/images/uploads/hcd_toolkit/IDEO_HCD_ToolKit.pdf>

Readings will be provided via t-square.

**List of Graded Assignments:**

Team Performance (90%):

* Project bid (5%) (P/F)
* Project proposal report (10%) (letter grade)
* Project proposal (5%) (letter grade)
* Progress report (15%) (letter grade)
* Progress presentation (5%) (letter grade)
* Final report (25%)
* Final presentation and poster session (10%)
* Weekly project updates (15%) (R/F)

Individual Performance (10%):

Class participation, presentation delivery, peer review, and class attendance and tardiness.

**Attendance Policy:**

Attendance is mandatory at all group meetings / work sessions with the instructors class lectures, studios, and class presentation sessions. Tardiness is unprofessional and unacceptable. Each student is required to participate in oral presentations during the semester.

**ADAPTS:**

The professor will work with ADAPTS so that all students have an equal opportunity for success. For information on ADAPTS, see http://www.adapts.gatech.edu/.

**Honor Code Statement:**

* By participating in this class, you agree to adhere to the Georgia Tech Honor Code.
* For additional information see: [http://www.honor.gatech.edu/](http://www.honor.gatech.edu/plugins/content/index.php?id=9).

**Readings, Lectures, and Videos:**

Information from readings, lectures, and videos are critical for your learning. You should complete the primary readings and watch the videos before the class in which they will be discussed; these are listed for the date of the class. In addition, you will be required to refer to these materials in your reports, presentations, and desk criticisms to show how you used them to develop and substantiate your designs and decisions. For example, you will need to show how you used formal tools to make decisions and select among alternatives. Also, you will be asked to show how you used multiple representation and visualization.

**Interactions with Sponsors and Mentors:**

You will be required to provide weekly updates on your interactions with your sponsors and mentors and their feedback on your projects.

**Schedule:**

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|  | Topics | Deliverables |
| Week 1 | Introduction / presentation of projects / Teamwork | Teams organized |
| Week 2 | Human centered design / Stakeholders | Sponsors/ mentors contacted |
| Week 3 | Literature review – how do you do it? |  |
| Week 4 | Literature review – results and synopsis | Project brief and presentation |
| Week 5 | Data collection methods |  |
| Week 6 | Data collection results |  |
| Week 7 | Data analysis results | Project proposal and presentation |
| Week 8 | Social and cultural issues |  |
| Week 9 | Work in teams |  |
| Week 10 | Work in teams | Progress report and presentation |
| Week 11 | Spring Break | Potential trips |
| Week 12 | Work in teams |  |
| Week 13 | Work in teams |  |
| Week 14 | Work in teams |  |
| Week 15 | Discussion of final presentations/reports |  |
| Week 16 | Work in teams | Final presentations |
| Week 17 | Finals Week | Final reports due |

Each week teams will formally update the faculty. Each week students will share their progress, problems, and ideas on how to navigate the project’s process with each other. This will provide integration and build camaraderie among the cohort.