



**Sustaining a Green Collar Workforce:
An Interdisciplinary Approach**



Interdisciplinary Lively Application Project (ILAP)

Title: International Development Project Study

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Interdisciplinary Classification (Subject, Level?):

This project is designed for second year or experienced students in the Water Quality Industry. The course in which the project was conceived is an approved Water Quality Management Technology elective course that is required for any student who plans to participate in a WQM study abroad program.

Prerequisite Skills: Must have completed WQM 100, WQM 206 and WQM 160 or have at least 2 years experience in water or wastewater treatment operations. Students must have good writing and presentation skills in order to complete the terms and conditions of the project.

Materials Required:

Computer with internet access for research.

Flashdrive or Memory Stick to present in class.

Any support documentation for the project.

Estimated Time:

In Class:	3 hours
Outside of Class:	20 hours

Description of Project:

During the curriculum scheduled for the semester in the WQM 169 (WQM 177 SpTp) International Development class, the students were given insight to considerations needed when planning for an International Development project in water, wastewater, collection system, distribution system or solids waste management. Each student is then required to select from a preselected list of locations around the globe with the exception of Western Europe and the United States to find a development need and create a planning project. This project is based on a real world problem but the planning is only fictional and no real work will be scheduled. Each student is then required to identify strategies to develop an improvement project which had to address the following items:

- 1.) Impacts in public health
- 2.) Engineering (pre planning only)
- 3.) Sustainability
- 4.) Logistics
- 5.) Benchmarking
- 6.) Funding
- 7.) Cultural considerations

No schedule was required and the students were given insight on international economics before the first presentation is scheduled to present to the class. Each presentation must last a minimum of 20 minutes and presented in Power Point with any handouts that may be necessary to convey the plans and objectives.

Students are NOT allowed to contact foreign governments or solicit concepts during their investigation.

These projects will then be shared with the Economics department to be used as a case study for Economic students to determine financial feasibility.

ECO Students:

Students will be assuming the role of the contractor whose job depends on the governmental decision to fund the project based on the research and concepts presented. There will be 6 countries with 2 environmental issues. You will pick (on the first-come-first-serve basis) the country and one of its environmental problems. It is your task to research and evaluate financial, social and cultural feasibility of the projects from the International Development students that have your country and your environmental issue. At the end of the semester, you will try to convince the government to fund your project (essentially you will bargain). Two students will be assigned to the same country although only one student is assigned to a particular environmental problem within that country. That means that the government's choice set is:

1. fund your project

2. fund your opponent's project,
3. fund both projects.

Since it is a Game Theory class and your primary objective is to learn how to model interactions between individuals whose choices depend on the decisions of others, your choice set as a contractor is:

1. Promote only your project. That could be achieved by either one of the following.
 - a. Concentrate on your project's strengths
 - b. Concentrate on your opponent's project's weaknesses
2. Collude with the opponent to bargain with the government to fund both projects.

Get the students out of their seats!

Outcomes:

Assessment: - formal assessment with Class Climate

See attached student evaluations.

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