THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Humanitarian Engineering and Culture in Guyana

ENGR 5797.23

Credit Hours:
3.00 - 3.00

Course Levels:
Undergraduate (1000-5000 level)
Graduate

Course Components:
Lecture

Course Description:
This course offers an opportunity to be engaged in a humanitarian engineering project trip to Georgetown, Guyana to work on solar education projects. Students who are a part of this course will learn about Guyanese history, culture, and current events; energy challenges, needs, and clean energy solutions; solar panel systems; complete technical design/evaluation challenges; and travel to Guyana.

Prerequisites and Co-requisites:
Prereq: Jr, Sr, or Grad standing in Engr, and permission of instructor.

Course Goals / Objectives:
- Learn about socio-economic, political and environmental challenges, faced by people in developing country context (Guyana)
- Attain stronger understanding and appreciation of Guyanese culture and thought.
- Research, develop, and document solutions to solar education challenges with faculty and students from the University of Guyana.
- Apply humanitarian concepts to real-world issues.
- Devise practical and sustainable engineering solutions that involve partnerships with the University of Guyana and the local community at large.

Course Topics:

- Humanitarian engineering
- Culture, history, diversity, current events, socio-economics in Guyana
- 1 week in-country activities -community projects, STEM Camp, presentations to university and other stakeholders.

Designation:

Elective