



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Sustainable Community Development - Honduras

ENGR 5797.24

Credit Hours:

3.00 - 3.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture

Course Description:

The course seeks to provide an opportunity for students to experience application of a broad range of engineering & non-engineering skillsets in a teambased environment working towards sustainable outcomes to humanitarian development challenges. Student teams from OSU & Zamorano University will work collaboratively with nonprofit Heart to Honduras to develop & support community-driven projects.

Prerequisites and Co-requisites:

Prereq: Pre-major, major, or Grad standing in the College of Engineering, AgSysMt, ConSysM, or Industrial Design; and Engr 5050 or FABEng 2200 or international study abroad experience; and permission of instructor.

Course Goals / Objectives:

- Work with community partners to identify resources that can be leveraged to develop sustainable community-based solutions
 - Effectively work in a multi-university, multi-cultural team-based environment
 - Appropriately apply engineering tools and skillsets in the analysis and design of systems in conjunction with community partners in a development country setting
 - Work within an NGO-defined framework for participatory community development
 - Develop an awareness of existing user and community practice related to an expressed need
 - Be self-reflective in response to being exposed to global poverty and differences in values and cultural norms
 - Able to work with community to prioritize cost, time, and scope of project
 - Implement solutions that are conscious of the social context of problem-solving
 - Engage in casual conversation in Spanish
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Course Topics:

- Humanitarian Engineering and team task work
 - History and Society
 - Spanish language instruction and assessment
 - In-country Travel Prep
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Designation:

Elective