



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Civil Engineering Global Capstone I

CIVILEN 4011

Credit Hours:

2.00 - 2.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture

Lab

Course Description:

Part 1 of a two semester course sequence satisfying the culminating design component in the curriculum for students in Civil Engineering set in a global development context. Must be taken in sequence with CivilEn 4012, taken as close to graduation as possible.

Prerequisites and Co-requisites:

Prereq: 2410, 2810, 3080, 3130, 3160, 3310, 3510, 3540, 3541, 3700, 4320 or 4350, and EnvEng 3200; or permission of instructor.

Course Goals / Objectives:

- Synthesize knowledge from their prior coursework to identify, formulate, and evaluate design alternatives in the context of a multidisciplinary civil engineering project that incorporate criteria.
 - Criteria includes: economics, aesthetics, and social, cultural, political, and environmental issues and impacts.
 - Prepare engineering documents such as engineering drawings and general notes, technical reports, and proposals
 - Prepare and present professional oral presentations for a variety of audiences.
 - Perform effectively as a member of a multi-disciplinary team.
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Course Topics:

- The first semester (Capstone 1) will be focused on evaluating design alternatives based on stakeholder needs, developing designs (building on previous work if appropriate),
 - preparing a detailed technical report, preparing professional drawings, and preparing a detailed project work plan for the second semester (Capstone 2).
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Designation:

Required