



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Civil Engineering Global Capstone II

CIVILEN 4012

Credit Hours:

2.00 - 2.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture
Lab

Course Description:

Part 2 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 semester immediately following CivilEn 4011 with sequence taken as close to graduation as possible.

Prerequisites and Co-requisites:

Prereq: 4011, and Sr standing; 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:

- evaluating design alternatives based on stakeholder needs, developing designs
 - advancing designs for the projects based on input from all stakeholders and preparing final documents
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Designation:

Required