



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Engineering Design for Environmental Health

ENVENG 5195

Credit Hours:

3.00 - 3.00

Course Components:

Lecture

Course Description:

Students in this course will learn how to incorporate health information into the engineering design process. This material complements risk assessment by focusing on the design of engineering systems. Course will discuss balancing financial, health, performance, and other considerations. Quantitative analysis will be conducted in soil, water, air, buildings, and occupational health scenarios.

Prerequisites and Co-requisites:

Prereq: Math 1151, 1161.01, or 1161.02, and Chem 1210 or 1250, and enrollment in the CivilEn, EnvEng, or PubHEHS major program; or grad standing; or permission of instructor.

Course Goals / Objectives:

- Discuss the impact of design choices on human health
- Conduct quantitative analysis in various media (soil, water, air) and specialties (building design, occupational health)
- Work on interdisciplinary teams to accomplish a common goal
- Apply design skills in complex systems