



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Fundamentals of Engineering for Transfer - Problem Solving and Design

ENGR 1188

Credit Hours:

1.50

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture

Lab

Course Description:

Introduction engineering problem solving and design through a hands-on design build project; teamwork; written, oral and visual communications; project management.

Prerequisites and Co-requisites:

Prereq: Engr 1186 and 1187. Concur: Math 1141 or Math 1151 or above, or equiv.

Course Goals / Objectives:

- Understand and gain experience with the elements of engineering problem solving and design as applied to various discipline in engineering
 - Experience material from a range of engineering disciplines through selected hands-on laboratory experiences
 - Develop professional skills for success in engineering, including teamwork and written, oral, and visual communications
 - Have an introductory level knowledge of project management (e.g. scheduling, budgeting, reporting)
 - Complete a term-length, design-build project which serves as a cornerstone experience. Project is to reinforce use of numerical problem solving, engineering documentation, graphics and visualization and teamwork skills
-

Course Topics:

- Introduction to Course and Overview
 - Engineering Problem Solving Fundamentals
 - Engineering Design Process Fundamentals
 - Introduction to Project Management
 - Design/Build Project Preparation Exercises
 - Design/Build Project(Project to make use of both Problem Solving and CAD knowledge)
-

Designation:

Required