THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Fundamentals of Engineering for Transfer - MATLAB

ENGR 1187

Credit Hours:
1.00

Course Levels:
Undergraduate (1000-5000 level)

Course Components:
Lecture

Course Description:
Engineering problem solving utilizing computational tools such as Matlab.

Prerequisites and Co-requisites:
Prereq or concur: Math 1150 or above.

Course Goals / Objectives:
- Understand basic elements for engineering problem solving utilizing tools such Matlab

Course Topics:
- Problem solving fundamentals overview 1 -- Problem types, systems descriptions, SI units, significant digits, understanding analsyis vs design
- Problem solving fundamentals overview 2 -- equations, operators, array elements; models and systems; mathematical models
- Using MATLAB for problem solving -- MATLAB tool/environment; command mode; script files, arrays, and strings; problem solving structure for MATLAB, algorithms, statements and functions; input, output; systems and mathematical models

Designation:
Elective