Instructor: Dr. Judah Ari-Gur, Room F-246, E-mail: judah.ari-gur@wmich.edu, Tel.: 276-3419
Office Hours: Mon. 11-11:50, Thur. 1-1:50
Corequisites: MATH 1700 or MATH 1220.

OBJECTIVES
To teach students the relationships between the fundamental principles of mathematics and sciences and the mechanical engineering profession.
To practice problem solving in the various areas of mechanical engineering.
To engage students in design activities.
To engage students in engineering team work.
To practice technical communication skills.
To prepare students for the mechanical engineering program at WMU.
To instill good study habits.

TOPICS
Introduction (scope and tools of profession)
Equilibrium and its failures
Materials and their failures
Structures and their failures
Fluid flow and its forms
Heating and cooling
Noise and vibration
Engines
Power sources and transmission
Manufacturing processes and plants
Engineering disasters and ethics
Project presentations and technical reports

GRADING ( !!! 2016 Due Dates !!! )
Homework assignments - 10% (as assigned)
Quizzes - 10%
Midterm exam - 20% (Thur. 25 Feb.)
Project 1 - 20% (Thur., 18 Feb.)
Project 2 - 20% (Thur., 14 Apr.)
Final exam - 20% (Thur., 28 Apr., 2:45-4:45)

A=90%- ; BA=85%- ; B=80%- ; CB=75%- ; C=70%- ; DC=65%- ; D=60%-

ALL THE ASSIGNMENTS MUST BE SUBMITTED UNTIL DUE DATE.
LATE SUBMISSIONS WILL NOT BE ALLOWED (=ZERO GRADE) !!