

ME328 Machine Design Class Flow Diagram

Design Processes
“Linear” – detailed planning before designing
Rapid Learning – fail early and often

Projects and project
management tools

Design Project

Understanding the mechanics and physics of machines

Mechanical power transmission

Stress analysis

Static failure theories

Stress concentrations

Buckling

Impact

Point contact loading

Vibration

Fatigue

Machine Elements

Fasteners

Bearings

Gears

Shafts

Brakes