MECH3351 - Design of Mechanical Systems

MECH 3351 Design of Mechanical Systems (3 semester credit hours) Lecture course. Design and analysis tools for mechanical systems. Design criteria based on reliability and functionality are introduced. Basic principles of stress and deflection analysis, application to mechanical components and systems. Failure design theory based on static and dynamic loads, stochastic considerations, and design of mechanical components such as shafts, bearing and shaft-bearing systems, gear and gear systems and mechanical joints. Prerequisites: MECH 2320 and ENGR 3300. Prerequisite or Corequisite: MECH 3350. (3-0) S