

TO: The Engineering Faculty

FROM: The Faculty of the School of Mechanical Engineering

DATE: August 23, 2000

RE: ME 557 Course Description Changes

The Faculty of the School of Mechanical Engineering has approved the following editorial changes in course description effective Spring Semester 2001. This action is now submitted to the Engineering Faculty with a recommendation for approval.

FROM:

ME 557 Design for Manufacturability Sem. 1. Class 2, cr. 3. Prerequisite: senior standing or consent of instructor.

Introduction to manufacturing concerns such as efficient design, producibility, and quality, which must be considered early in the engineering design process. Topics include the product development cycle, manufacturing process selection, tolerancing, design of assembly (DFA), quality control techniques, Taguchi's robust design methodology, quality function deployment (QFD), value engineering, and reliability. Laboratory projects in the area of tolerancing, assembly and manufacturability are included along with a project from industry in which the students can disassemble, analyze, and redesign a product while obtaining feedback from industry concerning manufacturability. Professor Cipra.

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REASON: The updated description more accurately describes the current content of the course. The minor changes are largely editorial with some slight changes in emphasis because of the evolution of the course. Specifically, the "quality function deployment (QFD)" topic was repositioned in a more logical order in the topics list. Also "value engineering" was renamed as

APPROVED BY THE COMMITTEE ON FACULTY RELATIONS OF THE SCHOOL OF MECHANICAL ENGINEERING

E. Daniel Hirleman /gdg
E.D. Hirleman, Head
School of Mechanical Engineering

CFR Minutes #929

Date 10/11/00

Chairman CFR C. D. Sutton