

**TO:** The Engineering Faculty

**FROM:** The Faculty of the School of Mechanical Engineering

**DATE:** August 23, 2000

**RE:** ME 572 Course Description Changes

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

**FROM:**

**ME 572 Analysis and Design of Robotic Manipulators** Sem. 2. Class 3, cr. 3 (el). Prerequisite: ME 352 or consent of instructor.

Introduction to the analysis and design of robotic manipulators. Topics include kinematic configurations, forward and inverse position solution, velocity and acceleration, path planning, off-line programming, force and torque solutions, rigid body dynamics, motors and actuators, robot design, sensors and controls, computer simulation, and graphical animation. Professor Cipra and Staff.

**TO:**

**ME 572 Analysis and Design of Robotic Manipulators** Sem. 2. Class 3, cr. 3. Prerequisite: ME 352 or consent of instructor.

Introduction to the analysis and design of robotic manipulators. Topics include kinematic configurations, forward and inverse position solution, velocity and acceleration, path planning, workspace analysis, force and torque solutions, rigid body dynamics, motors and actuators, robot design, sensors and controls, computer simulation, and graphical animation. Professor Cipra.

**REASON:** The updated description more accurately describes the current content of the course. The changes are largely editorial with some slight changes in emphasis because of the evolution of the course. Specifically, "workspace analysis" replaces "off-line programming" and Professor Cipra will be designated as the sole faculty member in charge of the course. The elective course designation "(el.)" will also be deleted because it is inconsistent with the rest of the Undergraduate Catalog.

APPROVED FOR THE FACULTY  
OF THE SCHOOLS OF ENGINEERING  
BY THE COMMITTEE ON  
FACULTY RELATIONS

CFR Minutes # 929

Date 10/11/00

Chairman CFR G.D. Sutton

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