

**Purdue School of Engineering and Technology, IUPUI**  
**Department of Mechanical Engineering**  
**Fall 2008 ME Electives and Graduate Courses**

**Course:** ME 450 Computer Aided Engineering Analysis (3cr)  
**Prerequisite:** ME 262, ME 272, and Math 262  
**Instructor:** K. Nema, Ph.D. ([knematol@iupui.edu](mailto:knematol@iupui.edu))  
**Days & Time:** Mon/Wed, 4:30-5:45 pm

**Course:** ME 491 Engineering Project (1-2cr)  
**Prerequisite:** Senior standing & consent of a faculty sponsor  
**Instructor:** ME Faculty  
**Days & Time:** Independent Project Course

**Course:** ME 504 Automotive Control (3cr)  
**Prerequisite:** ECE 382/ME482 or equivalent, familiarity with MATLAB, or Graduate standing  
**Instructor:** Soheli Anwar, Ph.D. ([soanwar@iupui.edu](mailto:soanwar@iupui.edu))  
**Days & Time:** Mon/Wed, 1:30-2:45 pm, IT 200B  
*Also offered via videostreaming through Purdue University EPE*

**Course:** ME 509 Intermediate Fluid Mechanics (3cr)  
**Prerequisite:** ME 310 or Graduate standing  
**Instructor:** Hasan Akay, Ph.D. ([hakay@iupui.edu](mailto:hakay@iupui.edu))  
**Days & Time:** Mon/Wed, 4:30-5:45 pm, SL 208

**Course:** ME 510 Gas Dynamics (3cr)  
**Prerequisite:** ME 310 or Graduate standing  
**Instructor:** Razi Nalim, Ph.D. ([mnalim@iupui.edu](mailto:mnalim@iupui.edu))  
**Days & Time:** Tues/Thurs, 6:00-7:15 pm, SL 208

**Course:** ME 546 CAD/CAM: Theory and Advanced Applications (3cr)  
**Prerequisite:** ME 197 & ME 262 or Graduate standing  
**Instructor:** Hazim El-Mounayri, Ph.D. ([helmouna@iupui.edu](mailto:helmouna@iupui.edu))  
**Days & Time:** Mon/Wed, 7:30-8:45 pm, SL 110

**Course:** ME 560 Kinematics (3cr)  
**Prerequisite:** Senior or Graduate standing  
**Instructor:** Gordon Pennock, Ph.D.  
**Days & Time:** Offered from Purdue University, West Lafayette via videostreaming

**Course:** ME 563 Mechanical Vibrations (3cr)  
**Prerequisite:** Senior or Graduate standing  
**Instructor:** Douglas E. Adams  
**Days & Time:** Offered from Purdue University, West Lafayette via videostreaming

**Course:** ME 569 Mechanical Behavior of Materials (3cr)  
**Prerequisite:** ME 344 or Graduate standing  
**Instructor:** Alan Jones, Ph.D. ([alsjones@iupui.edu](mailto:alsjones@iupui.edu))  
**Days & Time:** Tues/Thurs, 4:30-5:45 pm, SL 208

**Course:** ME 581 Numerical Methods in Mechanical Engineering (3cr)  
**Prerequisite:** ME 314 & ME 372 or Graduate standing  
**Instructor:** Akin Ecer, Ph.D. ([aecer@iupui.edu](mailto:aecer@iupui.edu))  
**Days & Time:** Mon/Wed, 6:00-7:15 pm, SL 208

**Course:** ME 597 Introduction to Friction and Wear (3cr)  
**Prerequisite:** ME 310 or Graduate standing  
**Instructor:** John Matlik, Ph.D.  
**Days & Time:** Tues/Thurs, 7:30-8:45 pm

**Course:** ME 597 ME Graduate Seminars (0cr)  
**Prerequisite:** Senior or Graduate standing  
**Instructor:** Hasan U. Akay, Ph.D. ([hakay@iupui.edu](mailto:hakay@iupui.edu))  
**Days & Time:** Thurs, 11:00-12:00 pm, SL 165

**Course:** ME 597 Mechanical Engineering Projects I (3cr)  
**Prerequisite:** Graduate standing  
**Instructor:** ME Graduate Faculty  
**Days & Time:** Independent Project Course