ME 452 Syllabus Supplement

Catalog Description Mathematical and computer modeling of dynamic lumped parameter mechanical, electrical, hydraulic, and pneumatic systems. Response of first and second order systems. Introduction to feedback control of linear systems. Prerequisite: Mathematics 324, Engineering 213

Credit Hour Policy This course meets the federal requirements of 15 in-class hours plus an expected 30 hours of out-of-class work per credit hour over a semester. (At least 135 hours total; 9 per week)

Time & Place ME 452 meets Tuesday and Thursday from 11 to 12:15 in Koch Center 270

Learning Objectives After completing this course, successful students will be able to:

• Demonstrate the ability to do mathematical modeling and analysis of various dynamic systems by making appropriate simplifying assumptions.
• Show an understanding of these systems by correlating mathematical models to expected physical responses.
• Demonstrate an understanding of feedback control systems.

Homework Problems will be assigned each class day and are due on the following class day.

Attendance Policy You are expected to attend all class sessions. Absences may adversely affect your grade.

Office Hours Dr. Blandford's office is Koch Center 266, Campus phone is 2201. He will usually be in his office from 7:00 to 9:00 AM and 10:00-11:00 AM.

Disability Policy It is the policy and practice of the University of Evansville to make reasonable accommodations for students with properly documented disabilities. Students should contact the Office of Counseling and Health Education at 488-2663 to seek services or accommodations for disabilities. Written notification to faculty from the Office of Counseling and Health Education is required for academic accommodations.

Honor code This course will be governed by the University of Evansville Honor Code, which is

I will neither give nor receive unauthorized aid, nor will I tolerate an environment that condones the use of unauthorized aid

This code has two fundamental expectations:

• Students will submit as their own work only those items that are indeed their own work
• Students will hold each other responsible for adhering to the Code