TO: The Faculty of the College of Engineering

FROM: The Faculty of the School of Industrial Engineering

RE: Change to Undergraduate-Level Course IE 37000 Prerequisites

From: IE 37000 – Manufacturing Processes I
Term Offered: Summer, Fall, Spring, Lecture 3, Cr. 3

Prerequisites: IE/ME; and NUCL 27300 or AAE 20400 or ME 32300
Description: Principal manufacturing processes; metal cutting, grinding and metal forming operations, machine tools, and tools and tooling. Nontraditional machining and welding. Introduction to computer-aided manufacturing and computer-aided graphics and design, N/C programming, robots, and flexible manufacturing systems. Classroom and laboratory demonstrations included. Not open to students with credit in ME 36300. Typically offered Summer Fall Spring.

To: IE 37000 – Manufacturing I
Term Offered: Summer, Fall, Spring; Lecture 3, Cr. 3

Prerequisites: IE/ME/AAE; and ME 27000 or AAE 20300
Corequisites: NUCL 27300 or AAE 20400 or ME 32300
Description: Principal manufacturing processes; metal cutting, grinding and metal forming operations, machine tools, and tools and tooling. Nontraditional machining and welding. Introduction to computer-aided manufacturing and computer-aided graphics and design, N/C programming, robots, and flexible manufacturing systems. Classroom and laboratory demonstrations included. Not open to students with credit in ME 36300. Typically offered Summer Fall Spring.

Reason: Adding AAE to list of approved majors.

Abhijit Deshmukh
Professor and Head
School of Industrial Engineering
TO: The Faculty of the College of Engineering

FROM: The Faculty of the School of Industrial Engineering

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Reason: Adding AAE to list of approved majors.

Abhijit Deshmukh  
Professor and Head  
School of Industrial Engineering
PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

ARTMENT Industrial Engineering
EFFECTIVE SESSION Fall 2018

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

☐ 1. New course with supporting documents
☐ 2. Add existing course offered at another campus
☐ 3. Expiration of a course
☐ 4. Change in course number
☐ 5. Change in course title
☐ 6. Change in course credit/type
☐ 7. Change in course attributes (department head signature only)
☐ 8. Change in Instructional hours
☐ 9. Change in course description
☐ 10. Change in course requisites
☐ 11. Change in semesters offered (department head signature only)
☐ 12. Transfer from one department to another

PROPOSED:

Subject Abbreviation

Course Number

Long Title Manufacturing Processes I

Short Title Mfg Processes I

Abbreviated title will be entered by the Office of the Registrar if omitted. (80 CHARACTERS ONLY)

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):
Principal manufacturing processes; metal cutting, grinding and metal forming operations, machine tools, and tools and tooling. Nontraditional machining and welding. Introduction to computer-aided manufacturing and computer-aided graphics and design. N/C programming, robots, and flexible manufacturing systems. Classroom and laboratory demonstrations included. Not open to students with credit in ME 36300. Typically offered Summer Fall Spring.
Restrictions: Must be enrolled in one of the following majors: Industrial Engineering, Mechanical Engineering, Aero and Astro Engineering

*COURSE LEARNING OUTCOMES:
a. Identify engineering materials and their physical properties; b. Select metal forming process and tools for certain shape change; c. Design metal machining processes and machining tools for certain shape changes; d. Test mechanical properties of materials; e. Select nontraditional machining processes for certain products; f. Design the microfabrication processes for an integrated circuit.

TERMS OFFERED
Check All That Apply:
☐ Fall ☑ Spring ☑ Summer

CAMPUS(ES) INVOLVED
☑ Calumet ☑ Cont Ed ☑ N. Central
☐ Ft. Wayne ☑ Tech Statewide ☑ W. Lafayette

☑ Instructor

Cross-Listed Courses

Office of the Registrar
FORM 40 REV. 6/11

Calumet Department Head
Date

Calumet School Dean
Date

Fort Wayne Department Head
Date

Fort Wayne School Dean
Date

Indianapolis Department Head
Date

Indianapolis School Dean
Date

North Central Faculty Senate Chair
Date

Vice Chancellor for Academic Affairs
Date

West Lafayette Department Head
Date

West Lafayette College/School Dean
Date

West Lafayette Registrar
Date

OFFICE OF THE REGISTRAR