

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

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Reason: Adding AAE to list of approved majors.

 4/24/18

Abhijit Deshmukh
Professor and Head
School of Industrial Engineering

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PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

Print Form

DEPARTMENT Industrial Engineering

EFFECTIVE SESSION Fall 2018

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

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

PROPOSED:	EXISTING:
Subject Abbreviation _____	Subject Abbreviation IE _____
Course Number _____	Course Number 37000 _____
Long Title Manufacturing Processes I _____	
Short Title Mfg Processes I _____	

TERMS OFFERED
Check All That Apply:

Fall Spring Summer

CAMPUS(ES) INVOLVED

<input type="checkbox"/> Calumet	<input type="checkbox"/> N. Central
<input type="checkbox"/> Cont Ed	<input type="checkbox"/> Tech Statewide
<input type="checkbox"/> Ft. Wayne	<input checked="" type="checkbox"/> W. Lafayette
<input type="checkbox"/> Indianapolis	

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

CREDIT TYPE		COURSE ATTRIBUTES: Check All That Apply	
1. Fixed Credit: Cr. Hrs. <input type="text" value="3.000"/>		1. Pass/Not Pass Only <input type="checkbox"/>	6. Registration Approval Type
2. Variable Credit Range: Minimum Cr. Hrs. <input type="text"/>		2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>	Department <input checked="" type="checkbox"/> Instructor <input type="checkbox"/>
(Check One) To <input type="checkbox"/> Or <input type="checkbox"/>		3. Repeatable <input type="checkbox"/>	7. Variable Title <input type="checkbox"/>
Maximum Cr. Hrs. <input type="text"/>		Maximum Repeatable Credit: <input type="text"/>	8. Honors <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>		4. Credit by Examination <input type="checkbox"/>	9. Full Time Privilege <input type="checkbox"/>
		5. Fees: <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request <input type="checkbox"/>	10. Off Campus Experience <input type="checkbox"/>
		Include comment to explain fee	

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Recitation	50	3	15	100
Presentation	_____	_____	_____	_____
Laboratory	_____	_____	_____	_____
Lab Prep	_____	_____	_____	_____
Studio	_____	_____	_____	_____
Distance	_____	_____	_____	_____
Clinic	_____	_____	_____	_____
Experiential	_____	_____	_____	_____
Research	_____	_____	_____	_____
Ind. Study	_____	_____	_____	_____
Pract/Observ	_____	_____	_____	_____

Cross-Listed Courses

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
Prerequisites: _____

***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.

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 _____