TO: The Faculty of the College of Engineering

FROM: The Faculty of the School of Industrial Engineering

RE: Change to Undergraduate-Level Course IE 33000 Prerequisites

From: IE 33000 - Probability And Statistics In Engineering II

Term Offered: Fall, Spring, Summer; Lecture 3, Cr. 3

ENGR 13100 or ENGR 14100 or (EPCS 11100 and EPCS 12100) or ENGR 12600 or Prerequisites:

ENGR 12100;

Introduction to statistical inference and experimental design. Correlation, regression, Description:

single and multi-factor ANOVA, non-parametric methods. Applications to statistical

quality control.

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Term Offered: Fall, Spring, Summer; Lecture 3, Cr. 3

ENGR 13100 or ENGR 14100 or ENGR 16100 or (EPCS 11100 and EPCS 12100) or Prerequisites:

ENGR 12600 or ENGR 12100;

She Deshull 4/24/18

Introduction to statistical inference and experimental design. Correlation, regression, Description:

single and multi-factor ANOVA, non-parametric methods. Applications to statistical

quality control.

Reasons: Recent changes in First Year Engineering honors coursework (i.e., ENGR 16100 and 16200) necessitate adding the corresponding first design course to the list of prerequisites.

Abhijit Deshmukh Professor and Head

School of Industrial Engineering

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Abhijit Deshmukh Professor and Head School of Industrial Engineering

## PURDUE UNIVERSITY REQUEST FOR ADDITION. EXPIRATION.

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Office of the Registrar FORM 40 REV. 5/11	OR REVISION OF AN UNDERGRADUATE CO (10000-40000 LEVEL)	TOTAL THE CONTRACT OF THE CONT					
DEPARTMENT Industrial Engineering EFFECTIVE SESSION Fall 2018							
INSTRUCTIONS: Please check the items below	which describe the purpose of this request.						
1. New course with supporting docu  2. Add existing course offered at an  3. Expiration of a course  4. Change in course number  5. Change in course title  6. Change in course credit/type	other campus 8. Cha 9. Cha X 10. Cha 11. Cha	ange in course attributes (department head signature only) ange in instructional hours ange in course description ange in course requisites ange in semesters offered (department head signature only) ansfer from one department to another					
PROPOSED:	TERMS OFFERED						
Subject Abbreviation	Subject Abbreviation IE	Check All That Apply:					
Course Number	Course Number 33000	CAMPUS(ES) INVOLVED					
Long Title Probability And Statistics In Engineering II  Short Title Prob & Stat In Engr II  Short Title Prob & Stat In Engr II  Calumet Cont Ed Tech Statev Ft. Wayne W. Lafayette							
	I by the Office of the Registrar if omitted. (30 CHARACTERS	ONLY)					
CREDIT TYPE  1.Fixed Credit: Cr. Hrs. 2.Variable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. 3.Equivalent Credit: Yes No	COURSE ATTRIE  1. Pass/Not Pass Only 2. Satisfactory/Unsatisfactory Only 3. Repeatable Maximum Repeatable Credit: 4. Credit by Examination 5. Fees: Coop Lab Rate Request Include comment to explain fee	BUTES: Check All That Apply  6. Registration Approval Type Department Instructor  7. Variable Title  8. Honors  9. Full Time Privilege  10. Off Campus Experience					
ScheduleType         Minutes Per Mtg         Meetings Per Week           Per Mtg         3         3           Recitation	or Weeks % of Credit Allocated 15 100	Cross-Listed Courses					
COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS): Introduction to statistical inference and experimental design. Correlation, regression, single and multi-factor ANOVA, non-parametric methods. Applications to statistical quality control. ENGR 13100 or ENGR 14100 or ENGR 16100 or (EPCS 11100 and EPCS 12100) or ENGR 12600 or ENGR 12100;							
*COURSE LEARNING OUTCOMES:  Be able to: use statistical software packages (e.g. Minitab, R) to perform statistical tests; compute and interpret statistical confidence, tolerance, and prediction intervals given engineering and scientific data; conduct and interpret parametric statistical tests (e.g. t-*test, ANOVA) on engineering and scientific data; conduct and interpret nonparametric statistical tests on engineering and scientific data; conduct and interpret regression analysis on engineering and scientific data; determine the appropriate statistical test or procedure to use on engineering and scientific data; design basic factorial experiments; and conduct basic statistical process control analysis.							
Calumet Department Head Date	Calumet School Dean Dat	le					
Fort Wayne Department Head Date	Fort Wayne School Dean Date	е					
Indianapolis Department Head Date	Indianapolis School Dean Date	<u></u> е					
North Central Faculty Senate Chair Date	Vice Chancellor for Academic Affairs Date						
West Lefourity Department Head	West Lafavetta Callege/School Deep Date	Mast Lafavetta Pacietras Date					