

UC 10915 10F

TO: F. Claydon, IE Interim Chair
IE Faculty

APPROVED NOV 17 2010
DATE: 15 SEPT 2010

FROM: C. Chung, IE Undergraduate Program Director


SUBJECT: Proposed 2011-2012 IE Degree Program

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The attached IE degree plan and flow chart for 2011-2012 contains the following modifications to the existing plan.

1. INDE 2331 Computer applications for industrial engineers has been moved from the spring to the fall of each year.
2. INDE 3310 Quality Control proposed change of INDE 2333 Engineering Statistics I from corequisite to prerequisite has been updated on the flow chart.
3. INDE 3320 proposed change of prerequisites to INDE 2331 Computer Applications for Industrial Engineers and INDE 3362 CAD/CAM has been updated on the flow chart.
4. INDE 3370 Discrete Event Simulation changes of prerequisite INDE 2331 Computer Applications for Industrial Engineers and co-requisite of INDE 3382 Stochastic Processes has been updated on the flow chart.

Dean's Signature:



Dr. David P. Shattuck

Date: 13 Oct 2010

INDUSTRIAL ENGINEERING UNDERGRADUATE DEGREE PROGRAM
2011-2012 ACADEMIC YEAR

First Year⁴		
Fall Semester		Hours
CHEM 1372	Chemistry for Engineers	3
CHEM 1117	Fundamentals of Chemistry for Engineers Laboratory	1
ENGI 1303	Freshman Composition I	3
HIST 1376 or 1377	The United States to 18771	3
MATH 1431	Calculus I2	4
	Humanities Core Course	3
		Total 17
Spring Semester		Hours
INDE 1331	Computing for Engineers	3
ENGL 1304	Freshman Composition II	3
HIST 1378 or 1379	The United States History since 18771	3
MATH 1432	Calculus II	4
PHYS 1321	University Physics I	3
		Total 16

Second Year		
Fall Semester		Hours
INDE 2333	Engineering Statistics I	3
INDE 3330	Finance and Cost Management	3
MATH 2433	Calculus III	4
PHYS 1322	University Physics II	3
INDE 2331	Computer Apps. for Industrial Engineers	3
		Total 16
Spring Semester		Hours
MECE 3400	Introduction to Mechanics	4
ENGI 2304	Technical Communication	3

INDE 3333	Engineering Economy I	3
POLS 1336	U.S. and Texas Constitutions and Politics1	3
MATH 3321	Engineering Math	3
		Total 15

Third Year		
Fall Semester		Hours
INDE 3382	Stochastic Models	3
INDE 3364	Engineering Statistics II	3
INDE 3432	Manufacturing Processes	4
INDE 3310	Quality Control	3
POLS 1337	U.S. Govt: Congress: President and Courts1	3
		Total 16
Spring Semester		Hours
INDE 3362	Computer Aided Design / Manufacturing	3
INDE 4331	Analysis of Industrial Activities	3
INDE 4369	Facilities Planning	3
INDE 3381	Linear Optimization	3
	Visual and Performing Arts Course	3
		Total 15

Fourth Year		
Fall Semester		Hours
INDE 3370	Discrete Event Simulation	3
INDE 4111	Industrial Engineering Seminar	1
INDE 3320	Computer Integrated Manufacturing	3
ECE 3336	Introduction to Circuits and Electronics	3
ENGI 2334	Thermodynamics	3
	Social Science Core Course (writing intensive)	3
		Total 16
Spring Semester		Hours
INDE3315	Supply Chain Management	3

INDE 4334	Engineering Systems Design	3
INDE 4337	Human Factors and Ergonomics	3
INDE 4372	Operations Control	3
	Technical Elective ¹¹	3
		Total 15
		Degree Total 126

¹ Refer to the [University of Houston Admissions website](#) for information on equivalents and substitutions and for information on advanced placement examinations.

² Students not qualified to enter [MATH 1431](#) must complete [MATH 1300](#), [1310](#) and/or [1330](#), as indicated by results of the Mathematics placement examination, prior to enrolling in [MATH 1431](#)

⁴ This degree may require three additional semester hours. Note the graphics requirement described under this department section.

¹¹ Approved technical courses are [MATH 3336](#), [3333](#), [MANA 3335](#), [MIS 3370](#), [INDE 4397](#), [INDE 4373](#). Other technical courses must be approved in advance by the Industrial Engineering departmental advisor.