



U N I V E R S I T Y of H O U S T O N

UC 11419 IIF

CULLEN COLLEGE OF ENGINEERING
OFFICE OF THE DEAN

APPROVED FEB 22 2012

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TO: Undergraduate Committee Members

DATE: 10 OCT 2011

FROM: C. Chung

RECEIVED OCT 14 2011

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SUBJECT: IE 2012/2013 Degree Plan Update

Please accept the following attachment as a Degree Plan update incorporating the course numbering changes submitted for the 2012/2013 cycle. These include: INDE 4315, INDE 4320, and INDE 4370.

Dean's Signature:

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Date: 12 Oct 2011

David P. Shattuck

2012-2013 Industrial Engineering Degree Plan

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 1877 ¹	3
MATH 1431	Calculus I ₂	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 1877 ¹	3
MATH 1432	Calculus II	4
PHYS 1321	University Physics I	3
Total 16		

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
POLS 1336	U.S. and Texas Constitutions and Politics ¹	3
Total 16		
Spring Semester		Hours
MECE 3400	Introduction to Mechanics	4
ENGL 2304	Technical Communication	3
INDE 3333	Engineering Economy I	3
INDE 2331	Computer Apps. For Industrial Engineers	3
MATH 3321	Engineering Math	3
Total 16		

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 Courts ¹	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

Fall Semester		Hours
INDE 4370	Discrete Event Simulation	3
INDE 4111	Industrial Engineering Seminar	1
INDE 4320	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
INDE 4315	Supply Chain Design and 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 127
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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.

Industrial Engineering Degree Program for Other UH Engineering Graduates

Students who have completed a Bachelor of Science at the University of Houston in another field of engineering may obtain a Bachelor of Science in Industrial Engineering degree by completing, at the University of Houston, the additional year of course work shown below. Required prerequisites for this program are [INDE 2333](#) and [3333](#), in addition to those courses required for the first degree.

INDE 3330	Industrial Cost Systems	3
INDE 3362	Computer Aided Design / Manufacturing	3
INDE 3364	Engineering Statistics II	3
INDE 3382	Stochastic Models	3
INDE 3381	Linear Optimization	3
INDE 3432	Manufacturing Processes	4
INDE 4331	Analysis of Industrial Activities	3
INDE 4369	Facilities Planning and Design	3

INDE 4372	Operations Control	3
	Technical Elective ¹⁵	3
	Total for Additional Degree	31

¹⁵Courses must be approved by the Industrial Engineering departmental advisor.