INDUSTRIAL AND SYSTEMS ENGINEERING - Class of 2016

Total Credits =

122

Freshman Year Fall Semester

Course Code	Description	Cr	
CHM 101	General Chemistry I Lec [GE-N]	3	
CHM 102	General Chemistry I Lab	1	
EGR 105	Foundations of Engineering I	1	
MTH 141	Intro Calculus w/Analytic Geom [GE-MQ]	4	
PHY 203	Elementary Physics I Lect [GE-N]	3	
PHY 273	Elementary Physics I Lab [GE-N]	1	
		13	

Freshman	Year	Spring	Semester
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Description	Cr	
Principles of Microeconomics [GE-S]	3	
Foundations of Engineering II	2	
Intermed Calc with Analytic Geom [GE-MQ]	4	
Elementary Physics II Lec [GE-N]	3	
Elementary Physics II Lab [ge-и]	1	
General Education Elective*	3	
	Principles of Microeconomics [ge-s] Foundations of Engineering II Intermed Calc with Analytic Geom [ge-мq] Elementary Physics II Lec [ge-N] Elementary Physics II Lab [ge-N]	Principles of Microeconomics [GE-S] 3 Foundations of Engineering II 2 Intermed Calc with Analytic Geom [GE-MQ] 4 Elementary Physics II Lec [GE-N] 3 Elementary Physics II Lab [GE-N] 1

16

Sophomore Year Fall Semester

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Course Code	Course Code Description		
ISE 240	Mfg Processes and Systems	3	
ISE 241	Mfg Processes and Systems Laboratory	1	
MCE 201	Engineering Graphics	3	
MCE 262	Statics	3	
MTH 243	Calculus for Functions of Several Vars	3	
PHY 205	Elementary Physics III Lec [GE-N]	3	
PHY 275	Elementary Physics III Lab [GE-N]	1	
		47	

Sophomore Year Spring Semester

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Course Code	Cr							
CVE 220	Mechanics of Materials	3						
ELE 220	Passive and Active Circuits	3						
ISE 220	Indust and Systems Engrg Seminar**	1						
MCE 263	Dynamics	3						
MTH 362 or MTH 244	Advanced Engineering Mathematics I or Differential Equations	3						
	General Education Elective*	3						
		16						

Junior Year Fall Semester

Course Code	Description	Cr	
CHE 333	Engineering Materials	3	
EGR 316 or PHL 212	Engineering Ethics or Ethics [GE-L]	3	
ISE 325	Computer Tools for Engineers	3	
ISE 411	Probability and Statistics for Engineers	3	
ISE 432	Deterministic Systems	3	
		15	

Junior Year Spring Semester

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Course Code	Description	Cr	
BUS 201	Financial Accounting	3	
ISE 404	Engineering Economy and Proj Planning	3	
ISE 412	Statistical Methods and Quality Systems	3	
ISE 433	Stochastic Systems	3	
	General Education Elective*	3	
		15	

Senior Year Fall Semester

Course Code	Description	Cr	
ISE 401	ISE Capstone Design I	3	
ISE 451	Production System Design	3	
	Professional Elective***	3	
	Professional Elective***	3	
	Free Elective	3	
		15	

Senior Year Spring Semester

Course Code	Description	Cr	
ISE 402	ISE Capstone Design II	3	
	Professional Elective***	3	
Professional Elective***			
	Professional Elective***	3	
	General Education Elective*	3	
		15	

- * Note the following specific requirements and restrictions for General Education [GE] electives:
- -Refer to specific Industrial and Systems Engineering General Education course requirements (see 2016 ISE Check Sheet).
- -[GE-ECw] Must take at least one (1) General Education course in writing [GE-ECw].
- -[GE-ECw] Can only take one (1) of the following 100-level writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105, WRT 106.
- -Recommend ECN 202 [GE-S] as a General Education Elective choice.
- ** Can be taken in either Freshman, Sophomore, or Junior year.
- *** Refer to department approved course list.

Name	ID#

INDUSTRIAL AND SYSTEMS ENGINEERING - Class of 2016

122 Credits

INDU	ISTRIAL AND SYSTEMS								122 C	realts	
	SPEC	IFIED I	MATH,	SCIE	ENCE,	AND E	NGINEERING COURS	SES			
	INTRODUCTORY E	NGINEE	RING				ENGINEERING SCI	ENCE AND	DESIGN	1	
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note
	EGR 105	1					CHE 333	3			
	EGR 106	2					CVE 220	3			
		3					ELE 220	3			
	MATHEMA	TICS					ISE 220	1			
	MTH 141 [GE-MQ]	4					ISE 240	3			
	MTH 142 [GE-MQ]	4					ISE 241	1			
	MTH 243	3					ISE 325	3			
	MTH 244 or 362	3					ISE 401	3			
							ISE 402	3			
	•	14					ISE 404	3			
	NATURAL SC	IENCES	_				ISE 411	3			
	CHM 101 [GE-N]	3					ISE 412	3			
	CHM 102	1					ISE 432	3			
	PHY 203 [GE-N]	3					ISE 433	3			
	PHY 273 [GE-N]	1					ISE 451	3			
	PHY 204 [GE-N]	3					MCE 201	3			
	PHY 274 [GE-N]	1					MCE 262	3			
	PHY 205 [GE-N]	3					MCE 263	3			
	PHY 275 [GE-N]	1					<u>I</u>	50			
							*PROFESSIONA	L ELECTI	VES		
								3			
								3			
								3			
		16						3			
	BUSINE	SS	_					3			
	BUS 201	3						15			
		-	ENED	AT DE	MICAT		GE COURSES	=			
	BREAD? At least one course in <i>each</i>	ГН			OUCAI		DEF At least one additional cours Remainder are taken in	e in 3 <i>differe</i>			s
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note
	**English Communication	n- <i>Writin</i> į	g [GE-ECv	v]			Natural Sci	ences [GE-N]			
	WRT	3					Satisfied by Required Cour	rses 12			
	Mathematical and Quantitat	tive Reaso	oning [GE	E-MQ]			Mathematical and Quant	itative Reaso	ning [GE	-MQ]	
	Satisfied by MTH 141	4					Satisfied by MTH 142	4			
	Fine Arts & Liter	ature [GE	-A]				**One additional course fr	om: EC/EC	w; A; FC	; L; S	
	Foreign Language/C	Culture [G	E-FC]				[GE-EC/ECw; A; F	C; L; S] 3			
		3					Free E	lective			
	Letters [G	E-L]						3			
	EGR 316 or PHL 212	3					Other Courses (no	t for degree	credit)		
	Natural Science	es [GE-N]									
	Satisfied by CHM 101	3									
											l
	Social Science	es [GE-S]									

^{*} Refer to Department Approved Course List.

^{**} Note the following specific requirements and restrictions for General Education [GE] electives:

^{-[}GE-ECw] Must take at least one (1) General Education course in writing [GE-ECw].

^{-[}GE-ECw] Can only take one (1) of the following 100-level writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105, WRT 106.

⁻Recommend ECN 202 [GE-S] as a General Education Elective choice.