

Five Year Schedule																				
COURSE	Course Title	Required	On-Line	DEPT	Fall 09	Spring 10	Summer 10	Fall 10	Spring 11	Summer11	Fall 11	Spring 12	Summer12	Fall 12	Spring 13	Summer13	Fall 13	Spring 14	Summer14	
Undergraduate Courses																				
1	EGN3613	Engineering Economic Analysis	R	X	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	EGN4624	Engineering Administration	R		10		1		1			1			1			1		
3	EIN3000	Introduction to IE	R		24	1			1			1			1			1		
4	EIN3314C	Work Measurement & Design	R		24	1			1			1			1			1		
5	EIN3354	Principles of Cost Engineering	R		24	1			1			1			1			1		
6	EIN 4191	Leadership Seminar I			24	1			1			1			1			1		
7	EIN 4192	Leadership Seminar II			24		1		1			1			1			1		
8	EIN4214	Safety Engineering/Administration			24	Occasionally														
9	EIN4243C	Human Engineering	R		24		1			1			1			1			1	
10	EIN4333C	Industrial Control Systems	R		24		1			1			1			1			1	
11	EIN4364C	Industrial Facilities Planning & Design	R		24		1			1			1			1			1	
12	EIN4391C	Manufacturing Engineering	R		24	1	1		1	1		1	1		1	1			1	1
13	EIN4450	Principles of Concurrent Engineering			24				1						1					
14	EIN4516C	Systems Analysis and Design	R		24	1			1			1			1				1	
15	EIN4517	Systems Engineering	R		24		1			1			1			1			1	
16	EIN4545C	IE Applications in Service Industries			24	Occasionally														
17	EIN4621C	Computer-Aided Manufacturing			24	Occasionally														
18	EIN4891C	IE Senior Design Project	R		24		1			1			1			1			1	
19	ESI4221	Empirical Methods for IE	R		24		1			1			1			1			1	
20	ESI4234	Quality Engineering	R		24	1			1			1			1				1	
21	ESI4312	Operations Research	R		24	1			1			1			1				1	
22	ESI4321	Quantitative Techniques in IE			24	Occasionally														
23	ESI4523	Systems Simulation	R		24		1			1			1			1			1	
24	ESI4628C	IE Applications of Computers	R		24	1			1			1			1				1	
25	STA3032	Probability and Statistics	R	X	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	STA3032H	Probability and Statistics - Honors	R		10	1	1		1	1		1	1		1	1		1	1	

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																				Graduate Courses
1	EGN5720	Internal Combustion Engine Analysis			10	Occasionally														
2	EGN5855C	Metrology			10	Occasionally														
3	EGN5858C	Rapid Prototyping	OR		10	1						1						1		
4	EGN6721C	Experimental Methods for High Perf. Engine Manufacturing			10	Occasionally														
5	EIN5108	The Environment of Technical Organizations	R	X	24	1		1	1		1	1		1	1		1	1		1
6	EIN5117	Management Information Systems		X	24		1			1			1			1				1
7	EIN5140	Project Engineering	R	X	24	1	1		1	1		1	1		1	1		1	1	
8	EIN5248C	Ergonomics	R	X	24	1			1			1			1				1	
9	EIN5251	Usability Engineering	R	X	24					1			1			1				1
10	EIN5255C	Interactive Simulation	R	X	24	1			1			1			1				1	
11	EIN5317	Training Systems Engineering	R	X	24	1			1			1			1				1	
12	EIN5346	Engineering Logistics		X	24		1			1			1			1				1
13	EIN5356	Cost Engineering	RE	X	24		1			1			1			1				1
14	EIN5368C	Integrated Factory Automation Systems	R	X	24				1			1			1				1	
15	EIN5388	Forecasting		X	24	Occasionally														
16	EIN5392C	Manufacturing Systems Engineering		X	24		1						1							1
17	EIN5607C	Computer Control of Manufacturing Systems	RE		24	Occasionally														
18	EIN5936	Seminar in IE Doctoral Research			24	Occasionally														
19	EIN6182	Engineering Management	R	X	24	1	1		1	1		1	1		1	1		1	1	
20	EIN6215	Systems Safety Engineering & Management	RE	X	24					1						1				
21	EIN6258	Human-Computer Interaction	RE		24	1			1			1			1				1	
22	EIN6264C	Industrial Hygiene		X	24								1							1
23	EIN6270C	Work Physiology	OR	X	24		1					1								1
24	EIN6279C	Biomechanics	OR	X	24					1						1				1
25	EIN6326	Technology Strategy		X	24	Occasionally														
26	EIN6336	Production and Inventory Control	R	X	24		1			1			1			1				1
27	EIN6339	Operations Engineering	RE	X	24	1			1			1			1				1	
28	EIN6357	Advanced Engineering Economic Analysis	R	X	24	1		1	1		1	1		1	1		1	1		1

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30	EIN6459	Concurrent Engineering	OR	X	24			1					1						
31	EIN6528	Simulation Based Life Cycle Engineering		X	24	Occasionally													
32	EIN6645	Real-Time Simulation Agents	RE	X	24		1		1			1			1			1	
33	EIN6647	Intelligent Simulation	RE	X	24	Occasionally													
34	EIN6649	Intelligent Tutoring Training Systems Design	RE	X	24		1		1			1			1			1	
35	EIN6930	Manufacturing Engineering Seminar		X	24	Occasionally													
36	EIN6933	Systems Acquisition		X	24	Occasionally													
37	EIN6934	Contract Negotiations		X	24	Occasionally													
38	EIN6935	Advanced Ergonomics Topics		X	24	Occasionally													
39	EIN6936	Seminar in Advanced Industrial Engineering		X	24	Occasionally													
40	ESI5219	Probability and Statistics for Engineers	R	X	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41	ESI5227	Total Quality Improvement	RE	X	24	1			1			1			1			1	
42	ESI5236	Reliability Engineering	R	X	24	1			1			1			1			1	
43	ESI5306	Operations Research	R	X	24	1			1			1			1			1	
44	ESI5359	Risk Assessment & Management		X	24	Occasionally													
45	ESI5419C	Engineering Applications of Linear and Nonlinear Optimization	OR	X	24	Occasionally													
46	ESI5531	Discrete Systems Simulation	R	X	24	1			1			1			1			1	
47	ESI6217	Statistical Aspects of Digital Simulation	R	X	24		1					1							1
48	ESI6224	Quality Management	R	X	24			1			1		1				1		1
49	ESI6225	Quality Design& Control	R	X	24		1			1		1				1			1
50	ESI6247	Experimental Design & Taguchi Methods	R	X	24		1			1		1				1			1
51	ESI6336	Queueing Systems	R	X	24	1					1							1	
52	ESI6358	Decision Analysis	R	X	24	1			1			1			1			1	
53	ESI6418	Linear Programming & Extensions	OR	X	24				1						1				
54	ESI6437	Nonlinear Mathematical Programming and Dynamic Programming		X	24	Occasionally													
55	ESI6448	Network Analysis & Integer Programming		X	24	Occasionally													
56	ESI6529	Advanced Systems Simulation		X	24	Occasionally													
57	ESI6532	Object Oriented Simulation	R	X	24		1			1			1			1			1

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		58	ESI6551C	Systems Engineering			R	X	24	1			1			1			1		
59	ESI6891	IEMS Research Methods				X	24		1			1			1			1			
60	ESI6921	Seminar in Advanced Operations Research				X	24	Occasionally													
61	ESI6941	Operations Research Practicum				X	24	Occasionally													
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<p>NOTE: Courses on the IEMS 5-Year Academic Plan are not guaranteed due to variables and circumstances that are beyond the control of the department.</p>																					