

ENGINEERING MANAGEMENT, INFORMATION, & SYSTEMS DEPARTMENT COURSE PLANNING GUIDE

(Guideline for planning purposes only; subject to change)

5/20/2014

■ = Course expected to be offered

		Sp	Su	Fall	Sp	Su	Fall	Sp	Su	Fall	Sp	Su	Fall	Sp	Su	Fall	
		14	14	14	15	15	15	16	16	16	17	17	17	18	18	18	
EMIS	Course Title																
Undergraduate	1305 Computers and Information Technology	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	1360 Introduction to Management Science	■		■	■		■	■		■	■		■	■		■	
	2360 Engineering Economy	■		■	■		■	■		■	■		■	■		■	
	3308 Engineering Management	■		■	■		■	■		■	■		■	■		■	
	3309 Information Engineering and Global Perspectives	■		■	■		■	■		■	■		■	■		■	
	3340 Statistical Methods for Engineers and Applied Scientists	■		■	■		■	■		■	■		■	■		■	
	3360 Operations Research	■		■	■		■	■		■	■		■	■		■	
	3361 Stochastic Models in Operations Research	■		■	■		■	■		■	■		■	■		■	
	3375 Cultural and Ethical Implications of Technology	■		■	■		■	■		■	■		■	■		■	
	4395 Senior Design	■			■			■			■			■			■
Senior / Graduate	5/7300 Systems Analysis Methods			■			■			■			■			■	
	5/7301 Systems Engineering Process	■		■	■		■	■		■	■		■	■		■	
	5/7303 Integrated Risk Management	■			■			■			■			■			
	5/7305 Systems Reliability, Supportability, & Availability Analysis	■			■			■			■			■			
	5/7307 Systems Integration and Test	■			■			■			■			■			
	5/7310 Systems Engineering Design		■			■			■			■			■		
	5/7315 Systems Architecture Development			■			■			■			■			■	
	5/7320 Systems Engineering Leadership			■			■			■			■			■	
	5/7330 Systems Reliability Engineering		■						■						■		
	5/7332 Data Mining for Analytics	■		■	■		■	■		■	■		■	■		■	■
	5/7335 Human-Systems Integration (HSI)		■						■						■		
	5/7340 Logistics Systems Engineering			■			■			■			■			■	
	5/7347 Critical Infrastructure Protection/Security Sys Engr																
	5/7352 Information System Architecture	■			■			■			■			■			
	5/7353 Information System Design Strategies			■			■			■			■			■	
	5/7357 Decision-Support Systems	■			■			■			■			■			■
	5/7360 Management of Information Technologies		■	■		■			■	■		■		■		■	■
	5/7361 Computer Simulation Techniques			■			■			■			■			■	■
	5/7362 Production Systems Engineering			■			■			■			■			■	■
	5/7364 Statistical Quality Control				■												
5/7365 Program and Project Management	■		■	■		■	■		■	■		■	■		■	■	
5/7366 Marketing Engineering			■			■			■			■			■	■	
5/7369 Reliability Engineering					■						■						
5/7377 Statistical Design and Analysis of Experiments			■						■							■	
5/7380 Managing Information Technology Controls		■			■				■			■		■		■	
5/7382 Information Technology Security and Risk Management				■			■			■			■				
Graduate	7312 Software Systems Engineering	■			■			■			■			■			
	7318 Systems Engineering Planning and Management	■					■					■					
	7331 File Organization and Database Management (CSE 7330)			■									■				
	7350 Algorithm Engineering (CSE 7350)			■			■			■			■				■
	7351 Enterprise Fundamentals			■			■			■			■				■
	7370 Probability and Statistics for Scientists and Engineers		■	■		■	■		■	■		■	■		■	■	■
	8305 Systems Life Cycle Cost & Affordability Analysis					■						■					
	8307 Systems Test and Evaluation	■					■						■				
	8310 Collective System Design																
	8315 Innovation in Systems Design		■							■						■	
	8331 Data Mining (CSE 8331)				■							■					
	8337 Information Retrieval (CSE 8337)																
	8340 Systems Engineering Tools		■					■					■				■
	8342 Six Sigma for Systems Engineering			■				■				■					
	8348 Supply-Chain Systems Engineering	■			■			■				■			■		
	8350 Algorithms II (CSE 8350)																
	8355 Graph Theory: Algorithms and Applications (CSE 8355)																
	8356 Information Engineering and Global Perspectives	■			■			■				■			■		
	8358 Technical Entrepreneurship (no distance ed)																
	8360 Operations Research Models	■	■		■	■		■	■		■	■		■	■		■
	8361 Engineering Economics and Decision Analysis	■	■		■	■		■	■		■	■		■	■		■
	8362 Engineering Accounting			■			■			■			■			■	■
	8363 Engineering Finance	■			■			■			■			■			■
	8364 Engineering Management			■			■			■			■			■	■
	8368 Enterprise Leadership																
	8371 Linear Programming			■			■			■			■			■	■
	8372 Queueing Theory						■						■				
	8373 Integer Programming				■												
	8374 Network Flows	■						■						■			
	8378 Optimization Models for Decision Support (campus only)				■							■					
8380 Mathematics for Optimization				■							■						
8381 Nonlinear Programming	■						■						■				
8382 Theory of Optimization																	
8390/93 Graduate Seminar																	
8394/95 Selected Problems																	
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		14	14	14	15	15	15	16	16	16	17	17	17	18	18	18	