ENGINEERING MANAGEMENT, INFORMATION, & SYSTEMS DEPARTMENT PLANNING GUIDE

(Guideline for planning purposes only; subject to change) *11/9/2009*

■ = Course expected to be offered

EMIS	Course Title	Sp 10	Su 10	Fall 10	Sp 11	Su 11	Fall 11	Sp 12	Su 12	Fall 12	Sp 13	Su 13	Fall 13	Sp 14	Su 14	Fall 14
1305	Computers and Information Technology	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1307	Information Technology in Business	■		■	■		■	■		■	■		■	■		■
1360	Introduction to Management Science	■		■	■		■	■		■	■		■	■		■
2360	Engineering Economy	■		■	■		■	■		■	■		■	■		■
3308	Engineering Management	■		■	■		■	■		■	■		■	■		■
3309	Information Engineering and Global Perspectives	■		■	■		■	■		■	■		■	■		■
3360	Operations Research	■		■			■			■			■			■
4340	Statistical Methods for Engineers and Applied Scientists	■		■	■		■	■		■	■		■	■		■
4395	Senior Design	■			■			■			■			■		
5390	Special Topics															
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		■			■			■			■			■	
5/7312	Software Systems Engineering	■			■			■			■			■		
5/7315	Systems Architecture Development			■			■			■			■			■
5/7320	Systems Engineering Leadership			■			■			■			■			■
5/7330	Systems Reliability Engineering		■						■						■	
5/7331	File Organization and Database Management (CSE 7330)			■			■			■			■			■
5/7335	Human-Systems Integration (HSI)		■						■						■	
5/7340	Logistics Systems Engineering			■			■			■			■			■
5/7347	Critical Infrastructure Protection/Security Sys Engr															
5/7350	Algorithm Engineering (CSE 7350)	■		■	■		■	■		■	■		■	■		■
5/7351	Enterprise Fundamentals			■			■			■			■			■
5/7352	Information System Architecture	■			■			■			■			■		
5/7353	Information System Design Strategies			■			■			■			■			■
5/7357	Decision-Support Systems	■			■			■			■			■		
5/7359	Information Engineering Seminar															
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					■						■				
5/7370	Probability and Statistics for Scientists and Engineers		■	■		■	■		■	■		■	■		■	■
5/7377	Statistical Design and Analysis of Experiments			■						■						■
5/7380	Managing Information Technology Controls	■			■			■			■			■		
5/7382	Information Technology Security and Risk Management		■			■			■			■			■	
7318	Systems Engineering Planning and Management			■					■					■		
8305	Systems Life Cycle Cost & Affordability Analysis		■			■						■				
8307	Systems Test and Evaluation			■					■					■		
8310	Collective System Design															
8315	Innovation in Systems Design		■						■						■	
8330	Advanced Database Management Systems (CSE 8330)				■						■					
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															
EMIS	Course Title	Sp 10	Su 10	Fall 10	Sp 11	Su 11	Fall 11	Sp 12	Su 12	Fall 12	Sp 13	Su 13	Fall 13	Sp 14	Su 14	Fall 14