

Department of Systems Engineering Systems Engineering and Management MS Degree Course Plan

NAME	SID#				
COURSE #	COURSE TITLE	PREREQUISITE	CROSSLIST (SUB) - COMMENTS	SEMESTER	GRADE
	ENGINEERING: MUST COMPLET	E AT LEAST TWO OF THE FOLI	LOWING COURSES	•	
SYSM 6301	Systems Engineering, Architecture and Design	(none)	MECH 6337		
SYSM 6302	Dynamics of Complex Networks and Systems	(none)	MECH 6317/EECS 6302/BMEN 6302		1
SYSM 6303	Statistics and Data Analysis	(none)	OPRE 6301		1
SYSM 6305	Optimization Theory and Practice	(none)			
	MANAGEMENT: MUST COMPLET	E AT LEAST TWO OF THE FOL	LOWING COURSES		-
SYSM 6311	Systems Project Management in Engineering and Operations	(none)	OPRE 6362		1
SYSM 6318	Marketing Management	(none)	MKT 6301		
	Systems Organizational Behavior	(none)	OB 6301		
SYSM 6337	Accounting for Managers	(none)	ACCT 6305		
MUS	T COMPLETE A SUBSET OF THE FOLLOWING, DEPENDING ON NUMI	BER FROM ENGINEERING ABO	OVE, FOR A MINIMUM OF FOUR ENGINE	ERING COURSES	;
	Risk and Decision Analysis	SYSM 6303	OPRE 6335		
SYSM 6306	Engineering Systems: Modeling & Simulation	(none)	BMEN 6372/MECH 6314 (may sub SYSE 6322)		1
SYSM 6307	Linear Systems	EE/MECH 4310	EECS 6331/MECH 6300		
SYSM 6308	Software Maintenance, Evolution & Re-engineering	SE 5354	CS 6356/SE 6356		
SYSM 6309	Advanced Requirements Engineering	SE 5354	CS 6361/SE 6361		
	Software Testing, Validation, and Verification	SE 5354	CS 6367/SE 6367		
	Requirements Design, Dev & Integ for Complex System	SYSM 6301 (co-req)			1
SYSM 6326	Systems Life Cycle Cost Analysis	SYSM 6301			
SYSM 6327	Systems Reliability	SYSM 6303/OPRE 6301			
MUST	COMPLETE A SUBSET OF THE FOLLOWING, DEPENDING ON NUMBI	ER FROM MANAGEMENT ABO	OVE, FOR A MINIMUM OF FOUR MANAG	EMENT COURSE	:S
SYSM 6312	Systems Financial Management	SYSM 6303 & 6337 (Co-req)	FIN 6301		
	Systems Negotiating & Dispute Resolution	(none)	HMGT 6324/OB 6332/MECO 6352		+
	The Entrepreneurial Experience	Consent of Instructor	ENTP 6398		1
	Managing Innovation within the Corporation	(none)	ENTP 6388		1
	Business Economics	OPRE 6303	MECO 6303		1
SYSM 6320	Strategic Leadership	(none)	BPS 6332		1
SYSM 6332	Technology and New Product Development	(none)	ENTP 6375/MIS 6375/OPRE 6394		
SYSM 6334	Systems Operations Management	OPRE 6301 (co-req)	OPRE 6302		
SYSM 6335	Organizing for Business Analytics: A Systems Approach	(none)	BUAN 6335		1
SYSM 6336	Earned Value Management System (to be offered in future)	Consent of Instructor			1
	REMAINING GRADUATE COURSES	IN CONCENTRATION AREA (M	NUST BE APPROVED)	•	
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STUDENT	•	ADVICOR CICK ATVICE	-	-	
SIGNATURE	DATE	ADVISOR SIGNATURE		DATE	

Last update: July 2019