

Engineering Management & Systems Engineering Long Range Schedule

Revision 8-14-08

COURSE NUMBER	COURSE NAME	Program	Semester																					
			F1 08	Sp 09	Sn 09	F1 09	Sp 10	Sn 10	F1 10	Sp 11	Sn 11	F1 11	Sp 12	Sn 12	F1 12	Sp 13	Sn 13	F1 13	Sp 14	Sn 14	F1 14			
EMMA 600	Cost Estimation and Financial Analysis	MEM Core	R	TTN		R	TTN		R	TTN		R	TTN		R	TTN		R	TTN		R	TTN		
EMMA 601	Level of Operational Systems	MEM Core	R	TTN		R	TTN		R	TTN		R	TTN		R	TTN		R	TTN		R	TTN		
EMMA 603	Operations Research	MEM Core	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	
EMMA 604	Project Management	MEM/Eng Core	R	TTN		R		TTN	R		R		TTN	R		TTN	R		TTN	R		TTN	R	
EMMA 614	Quality Systems Design	MEM/ASE Core	TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		
EMMA 715R15	Systems Analysis	MEM/PID Core	SE-R	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		
EMMA 605	Program Capture	MEM/ASE Core	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	Asymc	
EMMA 602	Systems Engineering Management	MEM Core	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	
EMMA 606	Introduction to Systems Engineering	MEM Core	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	SE-R	L	
EMMA 641	Systemic Methodology, Verification, & Validation	MEM Core	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	
EMMA 660	System Architecture & Modeling	MEM Core	TTN		SE-R	TTN		SE-R	TTN		SE-R	TTN		SE-R	TTN		SE-R	TTN		SE-R	TTN		SE-R	
EMMA 771	Risk & Vulnerability Management of Complex Interdependent Systems	MEM Core	TTN		SE-R	TTN		SE-R	TTN		SE-R	TTN		SE-R	TTN		SE-R	TTN		SE-R	TTN		SE-R	
EMMA 680	Preparation Seminar for Systems Engineering Certification	Regist or Capstone		L		L		L		L		L		L		L		L		L		L		
EMMA 721R01	Research Seminar in Engineering Management	PM/Eng Core	L		L		L		L		L		L		L		L		L		L		L	
EMMA 763R01 (Elective)	Reduce Engineering Design	PID Core (Eng)		TTN			TTN			TTN			TTN			TTN			TTN			TTN		
EMMA 710R13 (Elective)	Shaping the Future of Systems	PID Core (Eng)	L																					
EMMA 763R02 (Elective)	Introduction to Systemic Methods	PID Core (Eng)					TTN																	
EMMA 763R03 (Elective)	Systemic Methods	PID Core (Eng)					TTN																	
EMMA 763R05 (Elective)	Enterprise and Complex Systems Dynamics	PID Core (Eng)					TTN																	
EMMA 710R15 (Eng. Req.)	Systems Analysis	PID Core (Eng. Req.)	SE-R	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R		
EMMA 710R16 (Eng. Req.)	Complex Adaptive Systems: Environment	PID Core (Eng. Req.)	TTN			TTN			TTN			TTN			TTN			TTN			TTN			
EMMA 604	Project Management	MEM/Eng Core	R	TTN		R		TTN	R		R		TTN	R		TTN	R		TTN	R		TTN	R	
EMMA 011EMMA 800	Financial Engineering	DEng Core	R	TTN		R		TTN	R		R		TTN	R		TTN	R		TTN	R		TTN	R	
EMMA 012EMMA 801	Quantitative Engineering	DEng Core	R		TTN	R		TTN	R		R		TTN	R		TTN	R		TTN	R		TTN	R	
EMMA 011EMMA 801	Methodology for Advanced Engineering Projects	DEng Core	L		TTN	L		TTN	L		L		TTN	L		TTN	L		TTN	L		TTN	L	
EMMA 011EMMA 880	Engineering Leadership	DEng Core	L		TTN	L		TTN	L		L		TTN	L		TTN	L		TTN	L		TTN	L	
EMMA 011EMMA 813	Engineering Ethics	DEng Core	L		TTN	L		TTN	L		L		TTN	L		TTN	L		TTN	L		TTN	L	
EMMA 301	Introduction to Engineering Management	EM Minor	L	L	L	L	L	L	TTN	L	L	L	L	L	L	TTN	L	L	L	L	L	L	TTN	L
EMMA 302	Engineering Economics	EM Minor	TTN	L	L	L	L	L	TTN	L	L	L	L	L	L	TTN	L	L	L	L	L	L	TTN	
EMMA 402	Project Management	EM Minor	L	L	TTN	L	L	L	TTN	L	L	L	L	L	L	TTN	L	L	L	L	L	L	TTN	
EMMA 1516R15	Introduction to Systems Engineering	EM Minor	L	L	TTN	L	L	L	TTN	L	L	L	L	L	L	TTN	L	L	L	L	L	L	TTN	
EMMA 402R09	Statistical Concepts in Engineering Management	EM Minor	L	L	TTN	L	L	L	TTN	L	L	L	L	L	L	TTN	L	L	L	L	L	L	TTN	
EMMA 421	Technical Techniques in Engineering Management	EM Minor	L	L	TTN	L	L	L	TTN	L	L	L	L	L	L	TTN	L	L	L	L	L	L	TTN	
EMMA 424	Risk Management	EM Minor	L		TTN	L		TTN	L		L		TTN	L		TTN	L		TTN	L		TTN	L	
EMMA 606	Engineering Law	Elective			SE-R																			
EMMA 607	Stochastic Decision Methods	Elective																						
EMMA 613	Logistics and Supply Chain Management	Elective		TTN																				
EMMA 616	The Environmental Engineering Manager	Elective																						
EMMA 667	Cooperative Education	Elective																						
EMMA 668	Internship	Elective																						
EMMA 669	Practicum	Elective																						
EMMA 695R06	Topics in Engineering Management	Elective																						
EMMA 697	Independent Study in Engineering Management	Elective																						
EMMA 704R04	Design of Project Knowledge	Elective				R																		
EMMA 712R12	Multi-Criteria Decision Analysis and Decision Support Systems	Elective		L																				
EMMA 714R14	Cost-Product Management	Elective																						
EMMA 717R17	Cost Engineering	Elective																						
EMMA 724R04	Risk Analysis	Elective	L	TTN																				
EMMA 743R43	Reliability and Maintainability	Elective		TTN		R																		
EMMA 750R00	System of Systems Engineering	Elective																						
EMMA 751R01	Complexity, Engineering and Management	Elective				R																		
EMMA 760R00	Leadership for Engineering Managers	Elective																						
EMMA 760R05, 760R06	Topics in Engineering Management	Elective																						
EMMA 797R07	Independent Study in Engineering Management	Elective																						
EMMA 888	Ph.D. Seminar	Elective	L																					
EMMA 898	Research in Engineering Management	Elective																						
EMMA 899	Dissertation Research	Elective																						
EMMA 909	Engineering Management 909 - placeholder	Elective																						

Electives for Fall Spring 2010 and beyond have not yet been determined

Legend

- MEM Core Courses
- SE Core, plus EMMA 614 and ENMA 605
- Engineering Mgt PhD Core
- D.Eng Core
- Eng Mgt Minor

- TTN - Teletelnet televised course
- R - Regionally televised course
- SE-R - Systems Engineering televised course
- L - Live course taught from ODU campus