

Engineering Management & Systems Engineering Long Range Schedule

Revision 11-11-09

COURSE NUMBER	COURSE NAME	Program	Sp '10	Sm '10	Fl '10	Sp '11	Sm '11	Fl '11	Sp '12	Sm '12	Fl '12	Sp '13	Sm '13	Fl '13	Sp '14	Sm '14	Fl '14	Sp '15	Su '15	Fa '15	Sp '16
ENMA 600	Cost Estimation and Financial Analysis	MEM Core	R		R	TTN		R	TTN		R	X	TTN	R	TTN		R	TTN		R	TTN
ENMA 601	Analysis of Organizational Systems	MEM Core	R		TTN	R		TTN	R		TTN	R		TTN	X	TTN	R	TTN		R	TTN
ENMA 603	Operations Research	MEM Core	R		R	TTN		R	TTN		R	TTN		R	TTN		R	X		TTN	R
ENMA 604	Project Management	MEM/DEng Core	R	TTN	R	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	X
ENMA 614	Quality Systems Design	MEM/MESE Core	R		TTN	X	TTN	R	TTN		R	TTN		R	TTN		R	TTN		R	TTN
ENMA 715/815	Systems Analysis	MEM/PhD Core	R		TTN	R		TTN	X	TTN	R	TTN		R	R		TTN	R		TTN	R
ENMA 605	Program Capstone	MEM/MESE Core	Async	Async	Async	Async	Async	Async	Async	Async	Async	Async	Async	Async	Async	Async	Async	Async			
ENMA 602	Systems Engineering Management	MESE Core		SE-R		SE-R			SE-R			SE-R			SE-R			SE-R			SE-R
ENMA 640	Introduction to Systems Engineering	MESE Core	R				SE-R		SE-R			SE-R			SE-R			SE-R			SE-R
ENMA 641	Requirements Management, Verification, & Validation	MESE Core	R		DL			DL			DL			DL			DL			DL	
ENMA 660	System Architectures & Modeling	MESE Core			SE-R			SE-R			SE-R			SE-R			SE-R			SE-R	
ENMA 771	Risk & Vulnerability Management of Complex Interdependent Systems	MESE Core			SE-R			SE-R			SE-R			SE-R			SE-R			SE-R	
ENMA 690	Preparation Seminar for Systems Engineering Certification	Req'd or Capstone					L			L			L			L			L		
ENMA 721/821	Research Methods in Engineering Management	PhD/MS Core	L			L			L			L			L			L			L
ENMA 763/863 (Empirical)	Robust Engineering Design	PhD Core (Emp)	R			R			TTN			R			TTN			R			TTN
ENMA 710/810 (Analytical)	Modeling and Analysis of Systems	PhD Core (Analy)			DL			DL			DL			DL			DL			DL	
ENMA 702/802 (Analytical)	Methods for Rational Decision Making	PhD Core (Analy)			DL			DL			DL			DL			DL			DL	
ENMA 703/803 (Analytical)	Optimization Methods	PhD Core (Analy)	R			DL			DL			DL			DL			DL			DL
ENMA 723/823 (Analytical)	Enterprise and Complex Systems Dynamics	PhD Core (Analy)	TTN			DL			DL			DL			DL			DL			DL
ENMA 715/815 (Soc Rsh)	Systems Analysis	PhD Core (Soc Rsh)			TTN	R		TTN	X	TTN	R	TTN		R	R		TTN	R		TTN	R
ENMA 716/816 (Soc Rsh)	Complex Adaptive Situations Environment	PhD Core (Soc Rsh)				DL			DL			DL			DL			DL			DL
ENMA 604	Project Management	MEM/DEng Core		TTN	R	R		TTN	R		TTN	R		TTN	R		TTN	R		TTN	R
ENGN 611/ENMA 805	Financial Engineering	DEng Core	L			DL			DL			DL			DL			DL			DL
ENGN 612/ENMA 601	Corporate Engineering	DEng Core			TTN	R		TTN	R		TTN	R		TTN	X	TTN	R	TTN		R	TTN
ENGN 811/ENMA 821	Methodology for Advanced Engineering Projects	DEng Core			R			R			R			R			R			R	
ENGN 812/ENMA 880	Engineering Leadership	DEng Core			DL			DL			DL			DL			DL			DL	
ENGN 813/ENMA 813	Engineering Ethics	DEng Core	R			R			R			R			R			R			R
ENMA 301	Introduction to Engineering Management	EM Minor	L	TTN	L	L	L	L	L	TTN	L	L	L	L	L	TTN	L	L	L	L	L
ENMA 302	Engineering Economics	EM Minor	TTN	L	TTN	L	L	L	L	TTN	L	L	L	L	L	TTN	L	L	L	L	L
ENMA 401	Project Management	EM Minor	L	L	L	TTN	L	L	L	L	L	TTN	L	L	L	L	L	TTN	L	L	L
ENMA 415/515	Introduction to Systems Engineering	EM Minor	L	L	L	L	TTN	L	L	L	L	L	TTN	L	L	L	L	L	TTN	L	L
ENMA 420/520	Statistical Concepts in Engineering Management	EM Minor	L	DL	L	L	DL	L	L	DL	L	L	DL	TTN	L	DL	L	L	DL	TTN	L
ENMA 421	Decision Techniques in Engineering Management	EM Minor			L	DL		L	DL		L	DL		L	DL		L	DL		L	DL
ENMA 424	Risk Management	EM Minor		L		L		L	TTN	L	L	L		L	TTN	L	L	L		L	L
EN MA 480	Ethics and Philosophy in Engineering Applications	EM Minor	L		DL	L		DL	L		DL	L		DL	L		DL	L		DL	L
ENMA 606	Engineering Law	Elective			SE-R																
ENMA 607	Stochastic Decision Methods	Elective																			
ENMA 613	Logistics and Supply Chain Management	Elective			TTN			TTN			TTN			TTN			TTN			TTN	
ENMA 616	The Entrepreneurial Engineering Manager	Elective																			
ENMA 695/696	Topics in Engineering Management	Elective																			
ENMA 697	Independent Study in Engineering Management	Elective																			
ENMA 704/804	Design of Project Knowledge	Elective																			
ENMA 712/812	Multi-Criteria Decision Analysis and Decision Support Systems	Elective	R	TTN		DL			DL			DL			DL			DL			DL
ENMA 714/814	Crisis Project Management	Elective					DL						DL								
ENMA 717/817	Cost Engineering	Elective																			
ENMA 724/824	Risk Analysis	Elective	L			DL			DL			DL			DL			DL			DL
ENMA 735/835	Team Performance and Decision Making in Engineering	Elective	L			DL			DL			DL			DL			DL			DL
ENMA 743/843	Reliability and Maintainability	Elective			DL			DL			DL			DL			DL			DL	
ENMA 750/850	System of Systems Engineering	Elective																			
ENMA 751/851	Complexity, Engineering and Management	Elective			DL			DL			DL			DL			DL			DL	
ENMA 780/880	Leadership for Engineering Managers	Elective																			
ENMA 795/895, 796/896	Topics in Engineering Management	Elective																			
ENMA 797/897	Independent Study in Engineering Management	Elective																			
ENMA XXX	Systems Safety	Elective	L	DL	DL			DL			DL			DL			DL			DL	
ENMA XXX	Energy and the Environment	Elective	L	L																	
ENMA XXX	R&D and Systems Governance	Elective	L																		
ENMA XXX	Agent Directed Simulation and Systems Engineering	Elective	L																		
ENMA XXX	Marketing of Technology	Elective			L																

Legend

MEM Core Courses
 SE Core, plus ENMA 614 and ENMA 605
 Engineering Mgt PhD Core
 D.Eng Core
 Eng Mgt Minor
 Electives (only offered through cohorts of 15)

TTN - Teletelnet televised course
 R - Regionally televised course
 SE-R - Systems Engineering televised course
 L - Live course taught from ODU campus
 DL - Offered to all populations via Adobe Connect (subject to change)

This schedule is subject to change with little or no notice.