



Master of Engineering Requirements (30 credits)			Semesters Offered
Required	SYSE 501	Foundations of Systems Engineering	F/S
	ENGR 502†	Engineering Project and Program Management	F/S/Su ^c
	SYSE 530	Overview of Systems Engineering Processes	F/S
	ENGR 531	Engineering Risk Analysis	S/F/Su ^o
Pick 3	SYSE 512	Systems Sensing and Imaging Analysis	S ^c
	SYSE/ECE 532	Dynamics of Complex Engineering Systems	F
	SYSE 534	Human Systems Integration	S
	SYSE 541	Engineering Data Design and Visualization	F
	SYSE 549	Secure Vehicle and Industrial Networking	S
	SYSE 567	Systems Engineering Architecture	F
	SYSE 569	Cybersecurity Awareness for Systems Engineers	S ^o /Su ^c
	SYSE 571	Analytics in Systems Engineering	F
	SYSE 573	Cost Optimization for Systems Engineers	S
	SYSE 602	Systems Requirements Engineering	F
	SYSE 603	Introduction to Systems Test and Evaluation	S
	SYSE 667	Advanced Model-Based Systems Engineering	S ^c
	ENGR 510	Engineering Optimization: Methods and Applications	F
	ENGR 520	Engineering Decision Support/Expert Systems	S ^o
	ENGR 525	Intellectual Property and Invention Systems	S ^c /Su ^o
	ENGR 533	Spaceflight and Biological Systems	S ^o
	ENGR 540	Design & Analysis of Engineering Experiments	S
	ENGR/ECE 565	Electrical Power Engineering	S
	ENGR 570	Coupled Electromechanical Systems	F
	MECH 513	Simulation Modeling and Experimentation	S
	SYSE _____	(Experimental or new courses may be offered; complete list available at https://www.engr.colostate.edu/se/courses/)	
Choose 6 cr.	Technical Electives	Choose from SE Elective List*	
	SYSE 695	Independent Study Capstone Project (OR another SE course)	F/S/Su

* Maximum of 6 credits at 400-level may apply to degree

† CIS 600A or CIS 670 may be substituted for ENGR 502

‘Semesters Offered’ Key (when courses are *expected* to be offered; there is no guarantee for any specific semester):

F = Fall, S = Spring, Su = Summer, ^c = even years only, ^o = odd years only