

Plan A	Plan B			N	Semesters
Thesis	Project	_		Master of Science Requirements (30 credits)	Offered
Choose 15 cr.	Choose 15 cr.	3	SYSE 501	Foundations of Systems Engineering	F/S
		3	SYSE 512	Systems Sensing and Imaging Analysis	S^e
		3	SYSE 530	Overview of Systems Engineering Processes	F/S
		3	SYSE/ECE 532	Dynamics of Complex Engineering Systems	F
		3	SYSE 534	Human Systems Integration	S
		3	SYSE 541	Engineering Data Design and Visualization	F
		3	SYSE 549	Secure Vehicle and Industrial Networking	S
		3	SYSE 567	Systems Engineering Architecture	F
		3	SYSE 569	Cybersecurity Awareness for Systems Engineers	Sº/Sue
		3	SYSE 571	Analytics in Systems Engineering	F
		3	SYSE 573	Cost Optimization for Systems Engineers	S
		3	SYSE 602	Systems Requirements Engineering	F
		3	SYSE 603	Introduction to Systems Test and Evaluation	S
		3	SYSE 667	Advanced Model-Based Systems Engineering	S
		3	ENGR 502†	Engineering Project and Program Management	F/So/Sue
		3	ENGR 510	Engineering Optimization: Methods and Applications	F
		3	ENGR 520	Engineering Decision Support/Expert Systems	S^{o}
		3	ENGR 525	Intellectual Property and Invention Systems	Se/Suo
		3	ENGR 531	Engineering Risk Analysis	S/Fe/Suo
		3	ENGR 533	Spaceflight and Biological Systems	S^{o}
		3	ENGR 540	Design & Analysis of Engineering Experiments	S
		3	ENGR/ECE 565	Electrical Power Engineering	S
		3	ENGR 570	Coupled Electromechanical Systems	F
		3	ECE 566	Grid Integration of Wind Energy Systems	F^e
		3	MECH 513	Simulation Modeling and Experimentation	S
		CVCE	(Experimental or new courses may be offered; complete list available at		
			SYSE	https://www.engr.colostate.edu/se/courses/)	
6 cr.	12 cr.	Te	chnical Electives	Choose from SE Elective List*	
None	3 cr.		SYSE 695	Independent Study	F/S/Su
9 cr.	None		SYSE 699	Thesis	

Bold are suggested core courses

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

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

^{&#}x27;Semesters Offered' Key (when courses are *expected* to be offered; there is no guarantee for any specific semester): F = Fall, S = Spring, S = Summer, S = Summer