Systems Engineering Concentration Class Check Sheet:

	Course Number	Course Hours	Course Title
	ISE 224	3	Intro to Industrial & Systems Engineering
	MAE 211 or CPE 211	2 / 3	Solid Modeling (MAE 211) or Intro to Computer Programming for Engineers (CPE 211)
	MAE 271	3	Statics
	EE 321	3	Electrical Circuit Analysis I
	ISE 321	3	Engineering Economy
	ISE 327	3	Management Systems Analysis
	ISE 328	3	Intro to Systems Engineering
	ISE 340	3	Operations Research
	MAE 341	3	Thermodynamics I
	MAE 370	3	Mechanics of Materials
	MAE 375	1	Mechanics of Materials Lab
	ISE 390	3	Probability & Engineering Statistics I
	ISE 391	3	Probability & Engineering Statistics II
	ISE 426	3	Design & Analytics of Experiments
	ISE 428	3	Systems Analysis & Design I
	ISE 429	3	Systems Analysis & Design II
	ISE 447	3	Intro to Systems Simulation
	ISE 480	3	Systems Engineering Modeling

+ 12 Hours of Systems Engineering Electives

Total hours of 63 / 64 hours

Proposed SE Track: Tech Electives

	Course Number	Course Hours	Course Title
Mechanical & Aerospace Systems (12)			
	Course Number	**Course Hours**	**Course Title**
	MAE 200	3	Principles of Aeronautics & Astronautics
	MAE 272	3	Dynamics
Choose from one of the following course pairs:			
	MAE 284	3	Numerical Methods
	MAE 488	3	Analysis of Engineering Systems
	MAE 330	3	Fundamentals of Astrodynamics
	MAE 343	3	Compressible Aerodynamics
Electrical & Embedded Computer Systems (12)			
	EE 202	3	Introduction to Digital Logic Design
	CPE 221	3	Computer Organization
	CPE 348	3	Introduction to Computer Networks
Choose from one of the following courses:			
	CPE 323	3	Introduction to Embedded Computer Systems
	CPE 325	1*	Embedded Systems Laboratory
	CPE 212	3	Fundamentals of Software Engineering
	CPE 449	3	Introduction to Cybersecurity Engineering

Proposed HC Sys Track: Tech Electives

	Course Number	Course Hours	Course Title
Healthcare Systems (12)			
	Course Number	**Course Hours**	**Course Title**
	ISE 4xx / 5xx		Operational Improvement of Healthcare Systems
	ISE 4xx / 5xx		Healthcare Systems Engineering
Choose two more courses from the existing ISE Tech Electives options			
Control Systems (12)			
	EE 382	3	Analytical Methods for Continuous Time Systems
	EE 383	3	Multivariable Analysis Methods
	EE 386	3	Introduction to Control of Robotic Systems
	EE 486	3	Introduction to Modern Control Systems