

Mechatronics and ControlTrack		Semester	
class	description	F: Fall	
a.	practical with theory, may go for PhD, not sure yet	S: Spring	
b.	theoretical, definitely go for PhD, then stay in the research area		
c.	very practical, definitely will go to industry after MS		
core courses			
ECE556	Mechatronics	F	
ECE516	System Control Engineering	S	
ECE756	Advanced Mechatronics	S	
recommend courses			
ECE520	Digital Asic Design	S	b,c
ECE555	Computer Control of Robots	S	b,c
ECE570	Intro. to networking	F, S	a,b,c
ECE591Q	Machine Learning	F	a,b,c
ECE591U	Classical control	F	a,b,c
ECE592U	Digital control	S	a,b,c
ECE513	Digital signal processing	S	a,b
ECE514	Random process	F	c
ECE726	Advanced Feedback Control	F (once several years)	
ECE742	Neural Networks	S	a
ECE755	Advanced robotics	F	a,b
ECE759	Pattern Recognition	S	a,b,c
ECE763	Comupter vision	F	a,b,c
ST515	Experimental Statistics for Engineers I	F	a,b
ST516	Experimental Statistics For Engineers II	S	a
MA501	Advanced Mathematics for Engineers and Scientists I	F, S, Su	c
MA502	Advanced Mathematics for Engineers and Scientists II	F, S, Su	c
MA511	Advanced Calculus I	fall sum1 sprg	a,b
MA512	Advanced Calculus II	sum1 sum2 sprg	a,b
CSC520	Artificial Intelligence I	F	a,b
CSC522	Automated Learning and Data Analysis	S	a,b
OR501	Introduction to Operational Research	F,S	a,b,c
OR504	Introduction to Mathematical Programming	F	a,b
OR722	Decision Analytic Modeling	F	a
MAE721	Robust Control with Convex Methods	S	a