

## Graduate Controls Courses at the University of Minnesota

	Course Number	Course Title	Frequency of offering	Fall 2008	Spring 2009	Fall 2009	Spring 2010
1	ME 5281 AEM 4321 EE 4231	Linear Control Systems: Classical Design Methods	Once a year	✓ Salapaka	-	✓ Balas	-
2	AEM 8401 EE 5231	Linear Systems and Optimal Control	Once a year	✓ Jovanovic	-	✓ Georgiou	-
3	AEM 5401	Intermediate Dynamics	Once a year	✓ Gebre	-	✓ Gebre	-
4	AEM 5451 EE 8950	Optimal Estimation	Once a year	✓ Georgiou	-	✓ Gebre	-
5	ME 8282 EE 8215	Nonlinear Control Systems	Once a year	-	✓ Li	-	✓ Georgiou
6	AEM 8421 EE 5235	Robust Multivariable Control Design	Once a year	-	✓ Balas	-	✓ Salapaka
7	ME 5286	Introduction to Robotics	Once a year	-	✓ Donath	-	✓ Donath
8	ME 8281	Advanced Control Systems (Advanced Control Design Techniques for Linear Systems)	Once in 2 years	-	-	-	✓ Li
9	ME 8287	Vehicle Dynamics and Control	Once in 2 years	✓ Rajamani	-	-	✓ Rajamani
10	AEM 5431	Trajectory Optimization	Once in 2 years	-	✓ Mettler	-	✓ Zhao
11	AEM 8442	Navigation and Guidance Systems	Once in 2 years	-	-	-	✓ Gebre
12	AEM 8595	Elastic Stability of Aerospace Structures and Materials	Once in 2 years	✓ Elliott	-	-	-
13	EE 5239	Introduction to Nonlinear Optimization	Once in 2 years	✓ Luo	-	-	-
14	EE 8950	Convex Optimization	Once in 2 years	-	-	-	✓ Luo
15	EE 8235	Special topics In distributed systems	Once in 2 years	-	✓ Jovanovic	-	-
16	EE 8235	Special topics In adaptive control	Once in 2 years	-	-	✓ Jovanovic	-
17	CSCI 5304	Computational Aspects of Matrix Theory	Once in 2 years	✓ Saad	-	-	-
18	EE	Special Topics In Stochastic Control	Once in 2 years	-	Georgiou	-	-
19	AEM 8495	Applied Stochastic Optimal Control	Once a year	-	✓ Zhao	-	-
20	EE 8950	Vector Space Optimization	Once in 2 years	-	✓ Salapaka	-	-