

Course Schedule - Fall 2006

Aerospace Engineering

555 Multivariable Control Design Credit: 4 hours.

Frequency response design-specifications; algebraic and analytic constraints in scalar systems; uncertainty representation; Nyquist stability theory, small gain condition, multi-input multi-output systems; singular value decomposition; robustness and μ -function; linear quadratic regulator based design; recovery of LQ Design properties; Kalman filter; Riccati equations; H-infinity based design; reduction; balanced truncation; Hankel singular values; coprime factor reduction; loop shaping. Same as GE 521. Prerequisite: ECE 515.

CRN	Type	Section	Time	Days	Location	Instructor
36459	lecture-discussion	A	03:00 PM - 04:20 PM	MW	room 241 Everitt Elec and Comp Engr Lab	Sreenivas, R