

Aerospace Engineering 5-Year Plan (2007-2012)

I		Fall 2007	Spring 2008	Core	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012
		Rotorcraft										
631	Helicopter Aerodynamics I	X		X	X	X	X	X	X	X	X	X
632	Helicopter Aerodynamics II		X		X	X	X	X	X	X	X	X
633	Helicopter Dynamics		X	X	X	X	X	X	X	X	X	X
634	Helicopter Design		X		X	X	X	X	X	X	X	X
635	Helicopter Stability & Control		X		X	X	X	X	X	X	X	X
Flight Dynamics & Control												
640	Atmospheric Flight Mechanics			X								
641	Linear System Dynamics	X		X	X	X	X	X	X	X	X	X
642	Atmospheric Flight Control		X		X	X	X	X	X	X	X	X
644	Opt. Control of Aerospace Systems				X	X	X	X	X	X	X	X
742	Robust Multivariable Control		X		X	X	X	X	X	X	X	X
743	App. NL Control of Aerospace Vehicles		X		X	X	X	X	X	X	X	X
788K	Control of Stochastic Systems	X		X	X	X	X	X	X	X	X	X
788?	Autonomous Guidance & Navigation			X								
Structures												
651	Smart Structures	X		X	X	X	X	X	X	X	X	X
652	Computational Structural Mechanics		X		X	X	X	X	X	X	X	X
653	Nonlinear Finite Element Analysis	X			X	X	X	X	X	X	X	X
654	Composite Structures		X	X	X	X	X	X	X	X	X	X
655	Structural Dynamics	X		X	X	X	X	X	X	X	X	X
656	Aeroelasticity	X			X	X	X	X	X	X	X	X
681	Engineering Optimization	X			X	X	X	X	X	X	X	X
757	Advanced Structural Dynamics				X				X			
788b	Smart Fluids and Applications		X				X					X
Aerodynamics & Propulsion												
661	Advanced Propulsion I			X	X			X				
662	Advanced Propulsion II	X				X	X				X	
670	Fundamentals of Aerodynamics		X	X			X					X
672	Incompressible Aerodynamics											
674	Aerodynamics of Comp. Fluids		X				X					X
682	Hypersonic Aerodynamics				X				X			
683	High Temperature Gasdynamics				?				?			
684	Computational Fluid Dynamics I	X		X	X	X	X	X	X	X	X	X
685	Computational Fluid Dynamics II				X				X			
788a	Aeroacoustics											
788m	Mechanics of Fluids in Micro Systems				X							
Space Systems												
601	Astrodynamics	X			X	X	X	X	X	X	X	X
602	S/C Attitude Dynamics & Control				X	X	X	X	X	X	X	X
691	Satellite Design			X	X	X	X	X	X	X	X	X
692	Intro to Space Robotics	X		X		X	X	X	X	X	X	X
694	Spacecraft Communications				X	X	X	X	X	X	X	X
696	Spacecraft Thermal Design	X				X	X	X	X	X	X	X
697	Space Human Factors & Life Support				X	X	X	X	X	X	X	X
741	Interplanetary Navigation & Guidance		X			X	X	X	X	X	X	X
788d	Advanced Space Systems Design	X			X	X	X	X	X	X	X	X
788i	Intelligent Automation of Aero Systems											
788u	Planetary Surface Robotics				X				X			
788y	Advanced Control for Robotics		X			X	X	X	X	X	X	X
791	Launch & Entry Vehicle Design		X				X	X	X	X	X	X
NOTE: Schedule subject to change without notice												