

MS and PhD Courses Mechanical Engineering

		F12	Sp13	Su13	F13	Sp14	Su14	F14	Sp15	Su15	F15	Sp16	Su16
Design Systems and Control													
5/7302	Linear Systems Analyst		✓			✓			✓			✓	
5/7314	Introduction to Microelectromechanical Systems and Devices	✓				✓					✓		
5/7320	Intermediate Dynamics		✓			✓			✓			✓	
5/7322	Vibrations	✓	✓		✓	✓		✓	✓		✓	✓	
5/7326	Vehicle Dynamics	✓			✓			✓			✓		
5/7337	Introduction to Computational Fluid Dynamics		✓					✓				✓	
5/7372	Introduction to CAD	✓	✓		✓	✓		✓	✓		✓	✓	
8367	Nonlinear Control				✓						✓		
Mechanical Science													
5/7319	Advanced Mechanical Behavior of Materials	✓			✓			✓			✓		
5/7320	Intermediate Dynamics		✓			✓			✓			✓	
5/7322	Vibrations	✓	✓		✓	✓		✓	✓		✓	✓	
5/7323	Introduction to Fracture Mechanics												
5/7324	Fatigue Theory and Design												
5/7340	Introduction to Solid Mechanics	✓			✓			✓			✓		
5/7361	Matrix Structural Anaylis and Introduction to Finite Elements	✓			✓			✓			✓		
5/7364	Introduction to Structural Dynamics		✓						✓				
8364	Finite Element Methods in Structural and Continuum Mechanics							✓					
Thermal and Fluid Sciences													
5/7330	Heat Transfer				✓			✓			✓		
5/7331	Advanced Thermodynamics	✓			✓				✓				
5/7332	Heat Transfer in Biomedical Sciences		✓			✓						✓	
5/7333	Transport Phenomena in Porous Media	✓						✓					
5/7336	Intermediate Fluid Dynamcis	✓			✓			✓			✓		
5/7337	Introduction to Computational Fluid Dynamics		✓					✓				✓	
5/7371	Introduction to Gas Dynamcis & Analysis of Propulsion Systems		✓			✓			✓			✓	
5/7383	Heating, Ventilating and Air Conditioning	✓				✓					✓		
7394	Special Topics - Optics Laser Manufacturing	✓				✓						✓	
8339	Turbulent Shear Flow							✓					
8385	Conduction Heat Transfer												
8386	Convection Heat Transfer		✓			✓			✓			✓	
8387	Radiation Heat Transfer												
Manufacturing Systems Management Program													
7301	Entrepreneurship and Business Development in Manufacturing						✓			✓			✓
7303	Organizational Leadership				✓				✓				
7351	Computer Integrated Manufacturing Systems				✓				✓				
7352	Manufacturing Methods and Systems		✓					✓				✓	
7353	Manufacturing Management		✓			✓					✓		
7354	Lean Manufacturing and Six Sigma	✓				✓					✓		
7365	Strategies for Manufacturing Firms		✓			✓					✓		
7366	Global Manufacturing	✓						✓				✓	
7369	Innovation Management			✓				✓				✓	
7382	Finance and the Manufacturing Enterprise				✓				✓				