

Design and Manufacturing Track Electives

Area	Course	Catalog Number
<i>Manufacturing</i>	Principles of Manuf. Processes	6010
	Sustain. Product and Process	6060
	Nanotribology and Contact Mechanics	6960
	Mech Machining Surfaces	7960
	Sustainable Engineering	6960
	Engineering Material Science	7500
<i>Ergo and Human Factors</i>	Ergonomics	6100
	Human Factors in Eng. Design	6120
	Adv. Ergonomics	7100
	Advanced Mechatronics	6240
	Motion Capt. and Musculoskeletal Mod.	7XXX
	Princ. of Electromechanical Xducers	7XXX
<i>Systems</i>	Reliability Engineering	6030
	Quality Assurance Engineering	6040
	System Safety	7110
	Fundamentals of System Eng.	6960
	Requirements Eng. and Mgt.	6960
	Systems Eng. III - Capstone	6960
<i>MicroSystems</i>	Microfluidic Design	7960
	Fund. of Micromach. Processes	6050
	Microsystems Design and Char.	6055
	Fundamentals of Microscale Eng.	6620
	Microfluidic Chip Design & Fab	6730
	Microsensors	6960
	Micro Actuators	6960
<i>Mechanics</i>	Advanced Strengths of Materials	6300
	Finite Elements	6510
	Fatigue and Creep	7060
	Vibrations	6400
	Composite Materials	6520
	Fracture Mechancis	7530
	Advanced Finite Elements	7540