

Solid Mechanics, Design & Manufacturing (SMDM) and Biomechanics Engineering (BME) Four Year
Graduate Course Projection
Latest Revision 1/12/2018

Course No.	Course Title	M	18			19			20			21		
			S	SS	F	S	SS	F	S	SS	F	S	SS	F
	Graduate Courses													
ME 800	Mechanical Engineering Analysis	2			◆			◆			◆			◆
ME 820	Continuum Mechanics	2			◆			◆			◆			◆
ME 821	Linear Elasticity	2	◆			◆			◆			◆		
ME 823	Fracture Mechanics and Fatigue	5			•						•			
ME 824	Plasticity	2	◆			◆			◆			◆		
ME 825	Experimental Methods in Solid Mechanics	2	◆			◆			◆			◆		
ME 826	Laminated Composites	2			◆			◆			◆			◆
ME 861	Advanced Dynamics	2	◆			◆			◆			◆		
ME 872	Finite Element Methods	2	•			•			•			•		
ME 875	Optimal Design of Mechanical Systems	5				•						•		
ME 874*	Analysis of Manufacturing Processes(Guo)				•						•			
ME 921	Nonlinear Elasticity	5						•						•
ME 922	Viscoelasticity and Thermoelasticity	5	•						•					
ME 891	Cardiovascular Mechanics (Baek)	5			•						•			
ME 891	Additive Manufacturing (Sahasrabudhe/Chung)	5	•						•					
ME 891	Medicine for Engineer (Willis/Mejia-Alvarez)	5	•						•					
ME 891	Microfluidics: Fundamentals and Applications (Lillehoj)	5			•						•			
ME 891	Biomechanics Fundamentals (Bush)	5				•						•		
ME 891	Advanced Biothermal Fluids & Filtration (Wright/Roccabianca)	5							•					
ME 891	Advanced Finite Elements (Lee)	5									•			
ME 891	Brain Mechanics and Brain Injury (Mejia-Alvarez)	5				•							•	
ME 891	Structure Dynamics in Manufacturing Equipment (Khasawneh)	5						•						•
ME 891	Statistical Quality Design and Control (Chung)	5				•						•		
ME 891	Introduction to Tribology (Kwon)	5						•						•

M-Denotes number of semesters between course offerings

◆-Denotes core course

V - Denotes variability in course offering. This applies to ME 891 which to our knowledge is not currently scheduled for any specific semester, and hence its row is not yet filled out with possible offerings. It is desirable that this course be offered at least one a year in some capacity.

ME 874*- revamped from the course we had in the past