

# Advanced Engineering Technical Electives (List 1)

## Spring 2021

412	Thermal Systems*	TenPas	
639	Alternative Energy Systems	TenPas	
696	Design for Manufacturability	Maletsky	
718	Fundamentals of Fuel Cells	Li	
753	Bone Biomechanics	Fischer	BIOE
757	Biomechanical Systems	Wilson	BIOE
760	Biomedical Product Development	Friis	BIOE
788	Optimal Estimation	Fang	
790	Advanced Heat Transfer	Bergman	
790	Advanced Functional Materials & Coatings	Kwon	
790	Biomedical Microdevices	Soper	BIOE
790	Bioadditive Manufacturing	Tamerler	BIOE

\*As of Fall 2020, ME 412 is no longer a required course. Students can choose to take ME 412 or a different Advanced Elective. On your Advising Sheet, the class will still appear as "ME 412." Note in the Comment box if you choose to take a different class.

## Fall 2021 (tentative)

627	Automotive Design	Sorem	Needed for Formula
633	Basic Biomechanics	Fischer	Needed for BIOE
702	Mechanical Engineering Analysis	Yang	
722	Modeling Dynamics Mechanical Systems	Luchies	
733	Gas Dynamics	TenPas	
750	Biomechanics of Human Motion	Luchies	BIOE
752	Acoustics	Yang	
765	Biomaterials	Friis	BIOE
767	Molecular Biomimetics	Tamerler	BIOE
790	Intro to Surface & Interface Science	Kwon	