Additive Manufacturing

Master of Engineering: 30 Credits / 10 Courses

Students in the Professional Master of Engineering in Additive Manufacturing program must take five core courses and five technical electives. Technical electives can be chosen from the remaining core list or the pre-approved technical elective list. Students may also choose other related courses to fill these requirements with approval of an advisor. There is no research or thesis required for this degree.

Additive Manufacturing Core (required):	
	ENME744 Additive Manufacturing*

Additive Manufacturing Core (choose four):	
	ENME600 Engineering Design Methods*
	ENME607 Engineering Decision Making*
	ENME610 Engineering Optimization
	ENME743 Applied Machine Learning for Engineering and Design ***OR*** **ENME808E** Advanced Topics in Mechanical Engineering; Machine Learning: Theory and Applications
	ENPM671 Advanced Mechanics of Materials (every spring)

Additive Manufacturing Pre-approved Technical Elective Courses (choose five):		
	ENSE621 Systems Engineering Concepts and Processes: A Model-Based Approach*	(every fall)
	ENPM808G Additive Manufacturing for Aerospace, Energy and Water Applications*	(Fall 2019)
	ENPM808P Printed Electronics	(Fall 2020)
	ENPM809C Applied Statistics	(every other spring)
	ENPM809D Applied Energy Optimization	(Spring 2019)
	ENPM809N Data Mining	(every fall)
	ENME627 Manufacturing with Polymers	
	ENME647 Multiphase Flow and Heat Transfer	
	ENME672 Composite Materials	
	ENME770 Life Cycle Cost and System Sustainment Analysis	

*NOTE: Any courses not listed above must be approved by the Senior Academic Advisor **PRIOR** to registration.*

KEY	
Online Option *	(offering information)
[Prerequisite course]	

DISCLAIMER: All offerings are tentative and subject to change. *Updated 10/10/2019*