

Aerospace

Master of Engineering: 30 Credits / 10 Courses

Some core courses in the Aerospace Master of Engineering program may be replaced by the technical electives listed below and by other approved technical courses that meet the student's professional interests. Technical electives must be approved by the academic advisor. There is no research or thesis required for this degree.

Aerospace Core Courses:		
	ENAE601 Astrodynamics	(every fall)
	ENAE631 Helicopter Aerodynamics I	(every fall)
	ENAE633 Helicopter Dynamics I	(every spring)
	ENAE634 Helicopter Design	(every spring)
	ENAE636 Helicopter Dynamics II	(every fall)
	ENAE641 Linear System Dynamics	(every fall)
	ENAE651 Smart Structures	(every fall)
	ENAE654 Mechanics of Composite Structures	(every spring)
	ENAE655 Structural Dynamics	(every fall)
	ENAE684 Computational Fluid Dynamics I	(every fall)
	ENAE665 Advanced Airbreathing Propulsion	
	ENAE674 Aerodynamics of Compressible Fluids	
	ENAE675 Low Reynolds Number Aerodynamics	(every fall)

Aerospace Pre-approved Technical Electives:				
	ENPM652 Applied Finite Element Methods	(every summer)	ENAE685 Computational Fluid Dynamics II	(Spring odd years)
	ENPM671 Advanced Mechanics of Materials	(every spring)	ENAE691 Satellite Design	(Spring odd years)
	ENAE602 Spacecraft Attitude Dynamics and Control	(Spring odd years)	ENAE692 Introduction to Space Robotics	(Fall odd years)
	ENAE635 Helicopter Stability and Control	(Fall even years)	ENAE694 Spacecraft Communications	(Spring even years)
	ENAE652 Computational Structural Mechanics	(Spring odd years)	ENAE696 Spacecraft Thermal Design	(Spring even years)
	ENAE653 Nonlinear Finite Element Analysis of Continua	(Fall even years)	ENAE697 Space Human Factors & Life Support	(Spring odd years)
	ENAE656 Aeroelasticity	(Spring odd years)	ENAE741 Interplanetary Navigation and Guidance	(Spring odd years)
	ENAE642 Atmospheric Flight Control	(Fall even years)	ENAE742 Robust Multivariable Control	
	ENAE676 Turbulence	(Spring odd years)	ENAE743 Applied Nonlinear Control	(Spring even years)
	ENAE681 Engineering Optimization	(Fall odd years)	ENAE757 Advanced Structural Dynamics	(Spring even years)
	ENAE682 Hypersonic Aerodynamics	(every other fall)	ENAE791 Launch and Entry Vehicle Design	(Spring even years)
	ENAE683 High Temperature Gas Dynamics	(Spring odd years)		

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

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