

Aerospace Engineering

Graduate Certificate in Engineering: 12 credits / 4 courses

Students pursuing the Graduate Certificate in Engineering are required to select a specialization.

General (Select one of the following courses, one Rotorcraft course, one Space course and one additional course):	
ENAE641 Linear System Dynamics	(every fall)
ENAE642 Atmospheric Flight Control	(Fall even years)
ENAE654 Mechanics of Composite Structures	(every spring)
ENAE655 Structural Dynamics	(every fall)
ENAE656 Aeroelasticity	(Spring odd years)
ENAE674 Aerodynamics of Compressible Fluids	(every spring)
ENAE676 Turbulence	(Spring odd years)

Rotorcraft (select four of the following):	
ENAE631 Helicopter Aerodynamics I	(every fall)
ENAE633 Helicopter Dynamics I	(every spring)
ENAE634 Helicopter Design	(every spring)
ENAE635 Helicopter Stability and Control	(Fall even years)
ENAE636 Helicopter Dynamics II	(every fall)

Space (select four of the following):	
ENAE601 Astrodynamics	(every fall)
ENAE602 Spacecraft Attitude Dynamics and Control	(Spring odd years)
ENAE691 Satellite Design	(Spring odd years)
ENAE694 Spacecraft Communications	(Spring even years)
ENAE696 Spacecraft Thermal Design	(Spring even years)
ENAE741 Interplanetary Navigation and Guidance	(Spring odd years)
ENAE791 Launch and Entry Vehicle Design	(Spring even 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]	