AEROSPACE ENGINEERING, POST-BACCALAUREATE CERTIFICATE (P.B.C.)

All Graduate Certificate in Engineering Programs consist of 4 courses/12 credits. All students are expected to complete a preliminary course plan for their intended degree program. Degree planning worksheets can be found here: https://advancedengineering.umd.edu/degree-planningsheets (https://advancedengineering.umd.edu/degree-planning-sheets/)

Credits

Students complete 12 credits in one of the following specializations:

General

Course Title Select four courses and include at least one course from each of the 12 three specializations:

Total Credits			12
	ENAE676	Turbulence	
	ENAE674	Aerodynamics of Compressible Fluids	
	ENAE656	Aeroelasticity	
	ENAE655	Structural Dynamics	
	ENAE654	Mechanics of Composite Structures	
	ENAE642	Atmospheric Flight Control	
	ENAE641	Linear System Dynamics	

Rotocraft

Course	Title	Credits
Select four of the	following:	12
ENAE631	Helicopter Aerodynamics I	
ENAE632	Helicopter Aerodynamics II	
ENAE633	Helicopter Dynamics	
ENAE634	Helicopter Design	
ENAE635	Helicopter Stability and Control	
Total Credits	12	

Space

Course	Title	Credits	
Select four of the	following:	12	
ENAE601	Astrodynamics		
ENAE602	Spacecraft Attitude Dynamics and Control		
ENAE691	Satellite Design		
ENAE694	Spacecraft Communications		
ENAE696	Spacecraft Thermal Design		
ENAE741	Interplanetary Navigation and Guidance		
ENAE791	Launch and Entry Vehicle Design		
Total Credits			