AERONAUTICS CONCENTRATION

AERO 306	Aerodynamics and Flight Performance	4
AERO 307	Experimental Aerodynamics	2
AERO 401	Propulsion Systems	5
AERO 405	Supersonic and Hypersonic Aerodynamics	4
AERO 420	Aircraft Dynamics and Control	4
AERO 443	Aircraft Design I	3
AERO 444	Aircraft Design II	3
AERO 445	Aircraft Design III	3
Aeronautics Approved Electives. [1]		
Select from the following:		12
AERO 351	Introduction to Orbital Mechanics	
AERO 360	Creative Problem Solving in Engineering Design [2]	
AERO 355	Space Environments I	
AERO 356	Space Environments II	
AERO 406	Applied Computational Fluid Dynamics	
AERO 407	Reentry Aerodynamics	
AERO 408	Plasma Applications in Aerospace	
AERO 409	Flight Test	
AERO 421	Spacecraft Attitude Dynamics and Control	
AERO 425	Aircraft Performance	
AERO 432	Advanced Composite Structures Analysis	
AERO 434	Aerospace Structural Analysis III	
AERO 435	Aerospace Numerical Analysis	
AERO 450	Introduction to Aerospace Systems Engineering	
AERO 452	Spaceflight Dynamics II	
AERO 455	Introduction to Human Spaceflight	
AERO 446	Spacecraft Electrical and Electric Systems	
AERO 470	Selected Advanced Topics	
AERO 471	Selected Advanced Laboratory	
AERO 513	Applications of Remotely Piloted Aircraft Systems	
AERO 515	Continuum Mechanics	
AERO 522	Boundary-Layer Theory	
AERO 525	Computational Fluid Dynamics	
AERO 526	Spacecraft Thermal/Fluid Control	
AERO 532	Advanced Aerospace Composite Design	
AERO 533	Finite Elements for Aerospace Structural Analysis	
AERO 534	Aerospace Structural Dynamics Analysis	
AERO 535	Advanced Aerospace Structural Analysis	
AERO 540	Elements of Rocket Propulsion	
AERO 541	Air Breathing Propulsion	
AERO 548	Complexity in Engineered Systems	
AERO 549	Systems Engineering Applications	
AERO 553	Advanced Control Theory	
AERO 557	Advanced Orbital Mechanics	
AERO 560	Advanced Spacecraft Dynamics and Control	
AERO 561	Vehicle Integration and Testing	
AERO 562	Space Operations	
AERO 565	Advanced Topics in Aircraft Design	
AERO 568	Aerodynamic Research and Development I	
AERO 569	Aerodynamic Research and Development II	
AERO 570	Selected Advanced Topics [2]	
AERO 571	Selected Advanced Topics Laboratory [2]	
Total units		**40**

1. Consultation with advisor is recommended prior to selecting Approved Electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.
2. May require a petition depending on the topic. Please consult with your advisor.