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  4
AERO 444  Aircraft Design II  3
AERO 445  Aircraft Design III  3

Aerodynamics Approved Electives. 1

Select from the following:  12
AERO 311  Aircraft Development History
AERO 351  Introduction to Orbital Mechanics
AERO 353  Spacecraft Environment
AERO 360  Creative Problem Solving in Engineering Design  2
AERO 406  Applied Computational Fluid Dynamics
AERO 407  Reentry Aerodynamics
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 446  Introduction to Space Systems
AERO 470  Selected Advanced Topics
AERO 510  Systems Engineering I
AERO 511  Systems Engineering II
AERO 512  Aerospace Vehicle Software Application
AERO 513  Applications of Unmanned Aircraft Systems
AERO 515  Continuum Mechanics
AERO 517  Multidisciplinary Design and Optimization
AERO 519  Fundamentals of Vehicle Dynamics and Control
AERO 522  Boundary-Layer Theory
AERO 523  Turbulence
AERO 525  Computational Fluid Dynamics
AERO 526  Spacecraft Thermal/Fluid Control
AERO 528  Laminar Flow Aircraft Development

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 551  Global Positioning Satellite Navigation Systems
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 566  Advanced Topics in Spacecraft Design
AERO 567  Launch Vehicle and Missile 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  41

1 Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of postbaccalaureate studies and/or goals.
2 Require a petition.