

# Aeronautical Engineering Department

## Course Electives

### 2001-2003

AERO 405: Supersonic and Hypersonic Aerodynamics (4 units)  
AERO 407: Reentry Aerodynamics (4 units)  
AERO 409: Flight Test (4 units)  
AERO 419: Simulation of Aerospace Vehicles and Systems (4)  
AERO 435: Aerospace Numerical Analysis (4 units)  
AERO 450: Aerospace Systems Engineering (4)  
AERO 451: Spaceflight Dynamics I (4 units)  
AERO 452: Spaceflight Dynamics II (4 units)  
AERO 515: Continuum Mechanics (4 units)  
AERO 520: Applied Airplane Aerodynamics (4 units)  
AERO 521: Missile and Launch Vehicle Aerodynamics (4 units)  
AERO 522: Boundary-Layer Theory (4 units)  
AERO 523: Turbulence (4 units)  
AEROX524: Low Gravity Fluid Dynamics and Heat Transfer (4)  
AERO 525: Computational Fluid Dynamics (4 units)  
AERO 530: Inelastic Structural Analysis (4 units)  
AERO 532: Advanced Aerospace Composite Design (4)  
AERO 534: Aerospace Structural Dynamics Analysis (4 units)  
AERO 535: Advanced Aerospace Structural Analysis (4 units)  
AERO 540: Elements of Rocket Propulsion (4 units)  
AERO 541: Air Breathing Propulsion (4)  
AERO 550: Analysis and Design of Flight Control Systems (4 units)  
AERO 551: Global Positioning Satellite Navigation Systems (4 units)  
AERO 552: Advanced Control of Spacecraft and Aircraft (4)  
AERO 555: Piloted Flying Qualities of Aerospace Vehicles (4)  
AERO 560: Spacecraft Dynamics and Control (4 units)  
AERO 565: Advanced Topics in Aircraft Design (4 units)