Courses for Breadth Requirement of Aerospace Engineering M.S. Degree Program

Aerodynamics, Fluid Mechanics, Combustion and Propulsion (AFMCP)	AE 410: Computational Aerodynamics AE 412: Viscous Flow & Heat Transfer AE 416: Applied Aerodynamics AE 419: Aircraft Flight Mechanics AE 434: Rocket Propulsion AE 435: Electric Propulsion ME 410: Intermediate Gas Dynamics ME 501: Combustion Fundamentals ME 510: Advanced Gas Dynamics
Astrodynamics, Controls and Dynamical Systems (ACDS)	AE 402: Orbital Mechanics AE 454: Systems Dynamics & Control AE 483: Aerospace Computing Systems AE 502: Advanced Orbital Mechanics AE 504: Optimal Aerospace Systems ECE 515: Control System Theory and Design ECE 470: Introduction to Robotics
Structural Mechanics and Materials (SMM)	AE 451: Aeroelasticity ME 471: Finite Element Analysis TAM 427: Mechanics of Polymers TAM 428: Mechanics of Composites TAM 451: Intermediate Solid Mechanics TAM 551: Solid Mechanics I