

AAE PROGRAM EQUIVALENT COURSES

ME Courses that count as "Program Equivalent Courses" for the Aerospace Engineering Graduate Program.

Structures

ME 5068 - Introduction to the Finite Element Method
ME 5139 - Applied Finite Element Method
ME 5144 - Engineering Fracture Mechanics
ME 5168 - Introduction to the Finite Element Method
ME 5162 - Introduction to Laminated Composite Materials
ME 7040 - Elasticity
ME 7100 - Introduction to Continuum Mechanics
ME 7101 - Constitutive Models in Continuum Mechanics
ME 7163 - Advanced Strength of Materials and Elasticity Theory
ME 8100 - Advanced Topics in Continuum Mechanics
ME 8230 - Nonlinear Dynamics

Fluids

ME 6505 - Intermediate Fluid Dynamics
ME 6507 - Intermediate Numerical Methods
ME 6510 - Intermediate Heat and Mass Transfer
ME 6515 - Intro to Micro and Nanofluidics
ME 6526 - Combustion
ME 7510 - Advanced Heat Transfer
ME 7511 - Computational Fluid Dynamics
ME 7513 - Turbulence
ME 7520 - Wave Dynamics in Fluids
ME 7526 - Advanced Combustion
ME 7527 - Jet Propulsion
ME 7538 - Advanced Nuclear Reactor Thermal Hydraulics
ME 8503 - Statistical Thermodynamics
ME 8504 - Physical Gas Dynamics
ME 8514 - Optical Techniques for Flow Measurements

Dynamics and Controls

ME 5240 - Vibration and Acoustic Design
ME 5372 - Design and Control of Mechatronic Systems
ME 7230 - Advanced Dynamics
ME 7250 - Vibrations in Discrete Systems
ME 7290 - Digital Control Engineering
ME 7292 - Control System Labs
ME 7380 - Lumped Parameter Modeling and Systems Analysis
ME 8250 - Vibrations of Continuous Systems
ME 8260 - Advanced Engineering Acoustics