

AY 2026-27 ME Electives

Course	Option	Schedule*
Extended Core		
MECE-317 Numerical Methods	-AERO-AUTO-BIO-EE	SP
MECE-350 Strengths of Materials II	-AERO-AUTO-BIO	FA/SP
MECE-351 Dynamics II		FA
MECE-352 Thermodynamics II	-AERO-AUTO-BIO-EE	FA
MECE-355 Fluid Mechanics II	-AERO-AUTO-BIO-EE	SP
Applied Electives		
MECE-403 Propulsion	-AERO	SP
MECE-406 Advanced Computer Aided Design	-AERO-AUTO	FA/SP
MECE-409 Aerodynamics	-AERO	FA
MECE-421 Internal Combustion Engines	-AUTO	SP
MECE-489 Combustion		FA
Applied Electives-UGRD/GRAD Cross Listed		
MECE-510/610 Flight Dynamics	-AERO	FA
MECE-511/611 Orbital Mechanics	-AERO	FA/SP
MECE-520/620 Introduction to Optimal Design	-AERO-AUTO	SP
MECE-523/623 Powertrain Systems and Design	-AUTO	FA
MECE-524/624 Vehicle Dynamics	-AUTO	SP
MECE-529/629 Renewable Energy	-EE	FA
MECE-543/643 Classical Controls	-AERO-AUTO	FA/SP
MECE-544/644 Intro to Composite Materials	-AERO-AUTO	SP
MECE-550/650 Sustainable Energy Use in Transportation	-AUTO-EE	SP
MECE-555/655 Biomechatronics	-BIO	SP
MECE-557/657 Applied Biomaterials	-BIO	FA
MECE-558/658 Introduction to Engineering Vibrations	-AERO	FA
MECE-570/670 Manufacturing Processes & Engineering	-AERO-AUTO	FA
MECE-589/689 Special Topics - Applied CFD		SP
MECE-589/689 Special Topics - Applied FEA		SP
Graduate Electives		
MECE-605 Finite Elements		FA
MECE-606 Systems Modeling		SP
MECE-689 Spec. Topics - Fund Of Heat & Mass Transfer		SP
MECE-689 Spec. Topics - Reinforcement Learning		FA
MECE-725 Computational Methods in Fluid Dynamics	-AERO-BIO	FA
MECE-743 Digital Control Systems		SP
MECE-744 Nonlinear Control Systems		SP
MECE-756 Boiling and Condensation		FA
MECE-758 Intermediate Engineering Vibrations		SP
MECE-785 Mechanics of Solids		FA

* For planning purposes only. Course names, numbers, schedule subject to change

** Taught every other year