

AY 2025-26 ME Electives

Course	Option
Extended Core	
MECE-317 Numerical Methods	-AERO-AUTO-BIO-EE
MECE-350 Strengths of Materials II	-AERO-AUTO-BIO
MECE-352 Thermodynamics II	-AERO-AUTO-BIO-EE
MECE-355 Fluid Mechanics II	-AERO-AUTO-BIO-EE
MECE-389 Spec. Topics - Dynamics II	
Applied Electives	
MECE-403 Propulsion	-AERO
MECE-406 Advanced Computer Aided Design	-AERO-AUTO
MECE-409 Aerodynamics	-AERO
MECE-421 Internal Combustion Engines	-AUTO
BIME-340 3D-Technologies for Prosthetic Applications	-BIO
BIME-407 Medical Device Design	-BIO
Applied Electives-UGRD/GRAD Cross Listed	
MECE-510/610 Flight Dynamics	-AERO
MECE-511/611 Orbital Mechanics	-AERO
MECE-520/620 Introduction to Optimal Design	-AERO-AUTO
MECE-523/623 Powertrain Systems and Design	-AUTO
MECE-524/624 Vehicle Dynamics	-AUTO
MECE-529/629 Renewable Energy	-EE
MECE-543/643 Classical Controls	-AERO-AUTO
MECE-544/644 Intro to Composite Materials	-AERO-AUTO
MECE-550/650 Sustainable Energy Use in Transportation	-AUTO-EE
MECE-555/655 Biomechanics	-BIO
MECE-557/657 Applied Biomaterials	-BIO
MECE-558/658 Introduction to Engineering Vibrations	-AERO
MECE-570/670 Manufacturing Processes & Engineering	-AERO-AUTO
MECE-589/689 Spec. Topics - Applied CFD	-AERO-BIO
Graduate Electives	
MECE-605 Finite Elements	
MECE-606 Systems Modeling	
MECE-689 Spec. Topics - Fund Of Heat & Mass Transfer	
MECE-689 Spec. Topics - Graduate Fluid Mechanics	
MECE-689 Spec. Topics - Graduate Thermodynamics	
MECE-689 Spec. Topics - Reinforcement Learning	
MECE-743 Digital Control Systems	
MECE-756 Boiling and Condensation	
MECE-758 Intermediate Engineering Vibrations	
ISEE-684 Engineering and the Developing World	-EE
* For planning purposes only. Course names, numbers, schedule subject to change	
** Taught every other year	

Schedule*

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