

AY 2022-23 ME Electives

Course	Option	Schedule*
Contemporary Issues		
MECE-348 Cont Issues in Mechanical Engineering	-AERO-AUTO-BIO-EE	FA/SP
Extended Core		
MECE-317 Numerical Methods	-AERO-AUTO-BIO-EE	SP
MECE-350 Strengths of Materials II	-AERO-AUTO	FA/SP
MECE-352 Thermodynamics II	-AUTO-EE	FA/SP
MECE-355 Fluid Mechanics II	-BIO-EE	FA
Applied Electives		
MECE-401 Refrigeration and Air-conditioning	-EE	SP
MECE-402 Turbomachinery	-EE	FA
MECE-403 Propulsion	-AERO	SP
MECE-404 Robotics		SP (TBD)
MECE-405 Wind Turbine Engineering	-EE	SP
MECE-406 Advanced Computer Aided Design		FA/SP
MECE-409 Aerodynamics	-AERO	FA
MECE-421 Internal Combustion Engines	-AUTO	SP
Applied Electives-UGRD/GRAD Cross Listed		
MECE-510/610 Flight Dynamics	-AERO	SP
MECE-511/611 Orbital Mechanics	-AERO	FA
MECE-520/620 Introduction to Optimal Design		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 Biomechanics	-BIO	SP (EVEN AY)*
MECE-558/658 Introduction to Engineering Vibrations	-AERO	SP
MECE-570/670 Manufacturing Processes & Engineering	-AUTO	FA
Graduate Electives		
MECE-605 Finite Elements		FA
MECE-606 Systems Modeling		FA
MECE-731 Computational Fluid Dynamics	-AERO-BIO	SP
MECE-738 Ideal Flows	-AERO	FA
MECE-755 Microfluidics		SP
MECE-756 Boiling and Condensation		FA
MECE-785 Mechanics of Solids		FA

*subject to change