AY 2023-24 ME Electives

Course	Option	Schedule*
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 Heating, Air Conditioning, and Refrigeration	**-EE**	SP
MECE-402 Turbomachinery	**-EE**	FA
MECE-403 Propulsion	**-AERO**	SP
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
BIME-340 3D-Technologies for Prosthetic Applications	**-BIO**	FA/SP
BIME-407 Medical Device Design	**-BIO**	FA
BIME-510 Bioanalytical Microfluidics	**-BIO**	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 Transporation	**-AUTO-EE**	SP
MECE-555/655 Biomechatronics	**-BIO**	SP (EVEN AY)**
MECE-557/657 Applied Biomaterials	**-BIO**	SP (ODD AY)**
MECE-558/658 Introduction to Engineering Vibrations	**-AERO**	FA
MECE-570/670 Manufacturing Processes & Engineering	**-AUTO**	
ISEE-684 Engineering and the Developing World	**-EE**	SP
MCSE-610 Applied Biofluid Mechanics and Microcirculation	**-BIO**	FA
Graduate Electives		FA
MECE-605 Finite Elements		FA
MECE-606 Systems Modeling		SP
MECE-731 Computational Fluid Dynamics	**-AERO-BIO**	FA
MECE-738 Ideal Flows	**-AERO**	SP
MECE-743 Digital Control Systems		SP
MECE-744 Nonlinear Control Systems		SP
MECE-755 Microfluidics		FA
MECE-756 Boiling and Condensation		FA
MECE-758 Intermediate Vibrations		SP
MECE-785 Mechanics of Solids		FA

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

** Taught every other year