Topics of Undergraduate MEEN Elective Courses
Reviewed and approved in the MEE Undergraduate Curriculum Committee
Updated 2.22.2019

**Energy Electives**

MEEN 4110  Alternative Energy Sources x 5110.001
MEEN 4112  Nuclear Energy
MEEN 4300  Intermediate Thermodynamics
MEEN 4310  Intermediate Heat Transfer
MEEN 4315  Nanoscale Energy Transport Process x 5315.001
MEEN 4320  Mechanical Systems for Buildings
MEEN 4330  Intro Combustion Science and Engineering x 5330.001
MEEN 4332  Fundamentals of Air Pollution Engineering
MEEN 4335  Computational Simulation of Building Energy Systems
MEEN 4340  Energy Efficiencies and Green Building for Commercial Buildings
MEEN 4350  Energy Efficiencies and Green Building for Residential Buildings
MEEN 4410  Energy Harvesting Systems x 5410.001
MEEN 4460  Fundamentals of Oil and Gas
MEEN 4470  Geothermal Heat Pumps
MEEN 4480  Energy Materials
MEEN 4810  Topics in MEE
** MEEN 4810 is the course number for Energy Elective Topics Courses. MEEN 4800 courses cannot be counted as energy electives.**

**Technical Electives**

MEEN 4120  Aerospace Fundamentals
MEEN 4130  Failure of Deformable Bodies
MEEN 4140  Finite Element Analysis
MEEN 4151  Manufacturing of Renewable Biocomposites for Lightweight Energy Efficient Structures
MEEN 4152  Mechanics of Composites and Foams for Lightweight Energy Efficient Structures
MEEN 4160  Mechanical Vibrations
MEEN 4415  Smart Materials and Structures
MEEN 4488  Introduction to Microfluidics
MEEN 4510  Electronic Manufacturing Technologies
MEEN 4170  Solid Mechanics x5410
MEEN 4180  Feedback Control
MEEN 4190  Experimental Design in Engineering
MEEN 4800  Topics in MEE
MEEN 4930  Undergraduate Research
MFET 4190  Quality Assurance

** MEEN 4800 is the course number for Technical Elective Topics Courses. MEEN 4810 courses cannot be counted as Technical Electives.**

*These courses are not offered every semester.*