

## **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 course are not offered every semester.*