

Specialization Electives

Spec Electives are MAE prefix courses that are 4000 level and above. This list may not be all-inclusive. MAE prefixes are EML, EGM, and EAS. There are **no substitutions** for **non-MAE** courses to count as a spec elective. ***Engineering research, independent study, internship, or co-op credits cannot count.***

EAS4132: Compressible Flow (3)

EAS4101: Aerodynamics (3)

EAS4200: Aerospace Structures (3)

EAS4240: Aerospace Structural Composites (3)

EAS4300: Aerospace Propulsion (3)

EAS4400: Stability and Control of Aircraft (3)

EAS4412: Dynamics and Control of Space Vehicles (3)

EAS4510: Astrodynamics (3)

EAS4700: Aerospace Design I (3)

EAS4710: Aerospace Design II (3)

EAS4939: Special Topics (1-3)

EGM4585: Modeling and Control of Biomolecular Machines (3)

EGM4590: Biodynamics (3)

EGM4592: Bio-Solid Mechanics (3)

EGM4853: Bio-Fluid Mechanics (3)

EML4450: Energy Conversion (3)

EML4600: Refrigeration and Air Conditioning Fundamentals (3)

EML4601: Heat and Air Conditioning System Design (3)

EML4722: Introduction to Computational Fluid Dynamics (3)

EML4737: Hydraulics and Pneumatics (3)

EML4930: Special Topics (1-3)

Any EAS/EGM/EML 5000 or 6000-level Graduate Course (3)

Notes

Specialization electives can double-count as minor or certificate courses. However, they **cannot** double-count toward Aerospace or Mechanical Engineering degree requirements.