

## **AE Specialty: Rotorcraft or Vertical Flight**

*The following courses are suggested for AE majors who want their degree to reflect their interest in vehicles capable of vertical take-off and landing, including both manned and unmanned (UAV, UAS) concepts. These course offerings are also pertinent to students exploring the wind and wave energy sectors. As GT-AE leads one of the three national Vertical Lift Research Centers of Excellence (VLRCOE), employers such as Bell, Boeing, Sikorsky, Airbus, Uber, etc. specifically seek out our graduates, with a strong employment record.*

### **AE Options:**

- AE 4071 – Rotorcraft Aeromechanics\*
- AE 4040 – Computational Fluid Dynamics
- AE 4132 – Finite Element Methods
- AE 4803 – Robotics and Autonomy

### **Math:**

- MATH 4581 – Mathematical Methods in Engineering
- MATH 4305 – Linear Algebra

### **1<sup>st</sup> Year Graduate Electives:**

- AE 6030 – Unsteady Aerodynamics
- AE 6070 – Helicopter Aerodynamics

\*Very strongly recommended based on employer feedback